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1 UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

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3 THOMAS LAUMANN, ROBERT SILVER,
4 GARRETT TRAUB, and DAVID DILLON,
representing themselves and all
others similarly situated,

5 Plaintiffs,

6 v.

12 CV 1817(SAS)

7 NATIONAL HOCKEY LEAGUE, et al.,

8 Defendants.

9 -----x
10 FERNANDA GARBER, MARC LERNER,
11 DEREK RASMUSSEN, ROBERT SILVER,
GARRETT TRAUB, and PETER HERMAN,
representing themselves and all
others similarly situated,

12 Plaintiffs,

13 v.

12 CV 3704(SAS)

14 OFFICE OF THE COMMISSIONER OF
15 BASEBALL, et al.,

16 Defendants.

17 New York, N.Y.
18 March 19, 2015
10:00 a.m.

19 Before:

20 HON. SHIRA A. SCHEINDLIN,

District Judge

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1 (In open court)

2 THE COURT: Good morning. We are ready for the
3 rebuttal testimony?

4 MR. DUBNER: Yes, your Honor.

5 ROGER NOLL,

6 THE COURT: You understand you are still under oath.

7 THE WITNESS: Yes.

8 THE COURT: OK, good.

9 DIRECT EXAMINATION

10 BY MR. DUBNER:

11 Q. Dr. Noll, I would like to start with something that Dr.
12 Pakes and Dr. McFadden both said yesterday. They criticized
13 you for making predictions about people who may be in the
14 market to buy the league packages but didn't buy them in the
15 data you had. Do you consider that an apt criticism?

16 A. No, it has no relationship to reality of the economic
17 research on doing structural models.

18 Q. Are structural models and GMM often used to make
19 predictions about people who are not in the observable data?

20 A. One of the major reasons you do structural models is to be
21 able to predict what is going to happen, if there is a change
22 in the products or a change in competition in the market. And
23 of course if a product has never been in the market, or if
24 there has never been competition in a market, a structural
25 model is literally the only thing you can do to analyze that

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1 circumstance.

2 Q. Could you give us an example in the academic literature of
3 a structural model being used to make predictions about people
4 who were not in the observable data?

5 A. Well, for starters it would be hard to name a model that
6 didn't. All right? One of Professor McFadden's most important
7 papers predicts the demand for the Bay Area Rapid Transit
8 System, which was the subway before it was built. The Crawford
9 and Yurukoglu paper, one of their results is that when you
10 unbundle cable television channels, some people subscribe to
11 cable television who wouldn't otherwise have subscribed. And
12 then there is the Berry Levinsohn and Pakes paper on
13 automobiles, which has the same phenomenon; it's trying to
14 estimate the demand for automobiles and the function of
15 attributes for the entire population, not just those who have
16 bought automobiles.

17 Q. Let's talk about that paper for a moment. Dr. Noll, did
18 you prepare slides to aid your testimony today?

19 A. Yes, I did.

20 Q. So, Dr. Pakes's paper that you just referred to, in that
21 paper how many purchases occurred?

22 A. The average annual purchase of automobiles at the time of
23 this data sample was 10.6 million. It would vary around that
24 some, but that was roughly the size of the market at the time
25 of his data set.

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1 Q. And how big did Dr. Pakes and his coauthors conclude the
2 potential market was?

3 A. It was over a hundred million. It was basically all
4 households in the United States were the potential market.

5 Q. And did he make predictions about what consumers in that
6 potential market would do?

7 A. Yes. One of the objectives of the paper was to predict the
8 demand for automobiles that combined characteristics in new
9 ways, and so that requires examining whether the creation of
10 those automobiles would bring new consumers into the market.

11 THE COURT: So, he knew nothing about that other 89.4
12 percent of people other than they lived in the United States.

13 THE WITNESS: Well, yes. It's not that he knew
14 nothing. All he knew was those are the people who aren't
15 buying the automobiles that are here today. So, that's
16 information.

17 THE COURT: That's true. But that's all he knew about
18 them. He didn't know about their tastes, their preferences,
19 and whether they even drove.

20 THE WITNESS: That's right.

21 THE COURT: Or licenses or anything.

22 THE WITNESS: Exactly. And the purpose of his model
23 was to try to figure out what they would do if they were
24 offered a new choice set.

25 THE COURT: As I said, the only thing he knew about

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1 them is that they hadn't purchased.

2 THE WITNESS: That's exactly right.

3 Q. And did he have general demographic data about the United
4 States generally?

5 A. Yes, that's right. He starts off with a survey of 37,500
6 people, collects not only their interests in automobiles but
7 also their demographic characteristics, and then blows that up
8 to the entire population.

9 Q. So, did he have actual transactional data?

10 A. No. These are survey responses to questions about their
11 preferences with regard to automobiles, plus other questions.

12 THE COURT: Wait. Survey people were actually
13 purchasers, no?

14 THE WITNESS: The survey people were just people in a
15 random survey, yeah.

16 THE COURT: But they had been actual purchasers.

17 THE WITNESS: Yes.

18 THE COURT: Yes. OK.

19 THE WITNESS: Well, everybody eventually purchases an
20 automobile, yes.

21 MR. DUBNER: You're in New York; it's not entirely
22 true.

23 THE WITNESS: I keep forgetting about New York even
24 though I'm here, that's right.

25 Q. And did he have any general background demographic data

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1 about the rest of the population?

2 A. Well, yes, he has the census data and things like that,
3 yes. You have background data about the entire population.

4 What you don't have is preference data about the entire
5 population. And you take your sample and try to extrapolate
6 the preferences of the whole population based on the sample.

7 THE COURT: That's what I'm saying, the big group he
8 doesn't know how much they drive, if they have licenses, if
9 they bought a car in the last five years. Those are the things
10 he doesn't know.

11 THE WITNESS: No. And that's not a criticism. That's
12 the point.

13 THE COURT: I understand.

14 THE WITNESS: I'm not criticizing. He did exactly the
15 right thing.

16 Q. Is this generally considered a reliable paper?

17 A. Well, yes, it is an important paper, but economists don't
18 use legal terminology like reliability. Yes, it is regarded as
19 a paper, and if you want to do research like this, you need to
20 take into account the results of this paper.

21 Q. And how does that compare to what you did in your model in
22 this case?

23 A. It's precisely the same idea. We're trying to estimate the
24 demand for these stand-alone channels not in and of itself but
25 because we want to see what the presence of those would do to

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1 the demand for existing product, namely the league-wide
2 bundles. So, we are constructing samples of consumers who are
3 going to be in the market, first of all, because single
4 stand-alone channels are offered and, secondly, because the
5 single stand-alone channels will drive down the price of the
6 league bundle and therefore bring new people into the market
7 for that product.

8 Q. Now, Dr. McFadden said yesterday that there are standard
9 and objective measures that are used to determine how close a
10 model fits the data. What did you understand him to be
11 referring to?

12 A. Yes, it is the case that there are standard measures to
13 determine the reliability or quality of an econometric model,
14 and that's what he was referring to, I think. I can't tell
15 what's in his mind because he wasn't clear. But there is a set
16 of standard indicators of the quality of the regression model,
17 and in particular a GMM model, that one uses to determine
18 whether you've got something that passes the hee haw test, as
19 we say, something you would show to the person next door
20 because it's interesting.

21 Q. And what are some of those measures?

22 A. Well, those are the ones I have already talked about,
23 namely the fit of the equation and its ability to predict the
24 data you already observed. It has to be able to fit the data
25 you have. And that means good predictions of the data that

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1 were used in the construction of the model, such as the
2 moments, being able to recover the moments, and being able to
3 in general explain away those moments when the equation you get
4 has good measures of fit and a standard error of the variable
5 you are predicting is low.

6 Q. And did you report the standard error and the fit of the
7 moments?

8 A. Yes.

9 Q. And what did they show?

10 A. They showed this is a good model; it actually has high
11 measures of statistical fit overall to all the data.

12 Q. Did any of defendants' experts yesterday report any
13 standard objective measures that they claim showed your model
14 falling short?

15 A. No. What instead they did is pick a couple of things that
16 they thought were bad. So, they reported -- you know, you
17 could predict a lot of things with this data. You could use it
18 to predict any number of things that either exist now or could
19 hypothetically exist in a future world, and they picked a few
20 things, a handful of things, that they didn't like.

21 Q. Let's look at one example of how defendants claimed your
22 model didn't fit the data. Dr. McFadden presented these bar
23 charts, is that right?

24 A. Yes, he did.

25 Q. What do these measure?

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1 A. This is a count of the number of people who ever watch a
2 channel as in the actual data versus in the sample data, the
3 predicted data. So, this basically is a story let's predict
4 how many people are ever going to watch the Yankees channel and
5 compare that with the actual number who actually watch the
6 Yankees channel.

7 Q. And in your mind is there a more meaningful measure than
8 just the raw number of viewers who watch each channel?

9 A. Well, this is not the way you would test the reliability of
10 the model. Remember, that the reliability of the model is the
11 moment, the ability to predict the moments. And the moments
12 are of viewing time. That is to say what you would want to
13 know is if the avatars in Dr. McFadden's world are
14 representative of the real world, then they should be able to
15 predict viewing time. We know that they don't predict the
16 number of subscribers because the assumption in the model --
17 which is explained in my report -- is that everybody whose
18 utility for a given channel is below the utility of doing other
19 things will be automatically assumed not to be in the market
20 for that channel. That was the principle that we used to
21 decide who was a one RSN person, who was a two RSN person, etc.
22 So, we assigned zero viewing time to the people who we knew
23 would fall below that threshold. But in order to fall below
24 that threshold you had to have very small viewing time of that
25 channel. It had to be like something we talked about before,

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1 something you watch for a minute or an hour, something like
2 that, over an entire season.

3 So, the ability of the model to predict should be
4 evaluated on the basis of the ability to predict viewing time,
5 not whether a bunch of subscribers who spent very little time
6 watching that channel, whether your number is zero or two
7 minutes. That's not a valid way to test the validity of the
8 model.

9 Q. And would this chart look different if it represented
10 viewing time rather than number of people who watched the
11 channel?

12 A. Yes, it would reproduce the fit of the predictions on the
13 moments, and this is the chart that does that.

14 Q. And could you explain what this chart shows?

15 A. Yes, it shows the same thing that Dr. McFadden showed, only
16 now it's the predicted versus actual viewing times of all these
17 channels, where some of them are a little higher and some of
18 them are a little lower. But, as you can see this would be
19 standard for a model. You don't predict hardly anything
20 completely perfectly, but the errors are really small compared
21 to the actual value.

22 Q. Let's move to the next thing. A few times now defendants
23 highlighted one particular --

24 THE COURT: I'm sorry, I don't understand the purple.

25 THE WITNESS: OK. Some of the blues are going to go

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1 above the red, and some of the blues are going to go below the
2 red. So, you can see the reds peeking over --

3 THE COURT: OK. Thank you.

4 Q. A few times now defendants highlighted one particular
5 result they thought was implausible. That was the slide from
6 Dr. Ordover's supplemental declaration about more fans with
7 favorite teams buying the bundle than fans without favorite
8 teams.

9 A. Yes.

10 Q. You explained on Tuesday why you thought this result was
11 entirely plausible, right?

12 A. Yes.

13 Q. And briefly can you explain, just repeat what that was.

14 A. The basic story is that the decision to buy the bundle
15 versus the single channel is based in part the degree to which
16 one channel can substitute for another. The fewer RSNs you
17 actually care about, the less are you a beneficiary of
18 competition. All right? Because you really only are
19 interested in one or two channels. So, how much competition is
20 going on among the other 28 or 29 channels isn't very important
21 to you.

22 For the multi-channel viewers the availability of
23 multiple channels is important to you because you regard the
24 channels as closer substitutes than the average person.

25 Remember, in this group of people who watch more than

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1 two channels regularly, we only have about a third or less than
2 a third, about 30 percent or so of the total sample. So, this
3 is a group of people who are at the extreme, the upper tail of
4 the sample in terms of the degree to which they view channels
5 as substitutes. And if that's the case, then they are going to
6 be more price sensitive to the whole range of prices in the
7 whole sample than somebody who is just a single RSN person.

8 THE COURT: I'm sorry. I'd like to understand, but I
9 don't understand why you know that they are more price
10 sensitive.

11 THE WITNESS: No, the result of the model is that
12 they're more price sensitive, and here is the reason:

13 Suppose you are a Yankees fan. You couldn't care less
14 what the price of the Houston Astros channel is. Right? You
15 are going to buy the Yankees -- you're pretty price sensitive
16 to it. All right? Now instead suppose you're someone who just
17 likes baseball and you don't care whether it's the Houston
18 Astros or the New York Yankees. You are more likely to look at
19 the relative price of those two to decide which channel to
20 subscribe to.

21 THE COURT: That's true if I was going to choose
22 between two stand-alones, I might care.

23 THE WITNESS: Or three or four.

24 THE COURT: But for the multi-channel I can see all
25 the games all the time, no?

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1 THE WITNESS: That's right. But the point is the
2 additional variant -- Professor McFadden referred to this as
3 diversity, the value of diversity, that the attribute of these
4 multi-channel fans is that they really don't care very much
5 which team they're watching.

6 THE COURT: That's true.

7 THE WITNESS: And so because they don't care very
8 much, they're more sensitive to price among the channels,
9 because, you know, they can get the bundle for \$20, or they can
10 get an individual channel for \$6, and that's a big difference
11 compared to the value they would assign to diversity. And if
12 all they really care about is just watching a baseball game
13 every night and they don't care which team it is, then that
14 price competition between the single channels and the bundle
15 and the price competition among the single channels is going to
16 be more important to them.

17 THE COURT: OK, thank you.

18 Q. Now, Dr. McFadden and Dr. Ordoover suggested that you were
19 wrong about the interpretation, the explanation you just gave.
20 I think based on what was Exhibit 5 in Dr. Ordoover's second
21 supplemental declaration, where he reported the set price as
22 equal and show the same effect, why doesn't this show in your
23 mind that your explanation about price sensitivity is wrong?

24 A. Well, the reason that it's wrong -- the thing that's
25 intriguing is Dr. McFadden is the one who prevetted Dr.

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1 Ordover's results, and so it's a bit weird because he didn't
2 explain where they come from. The core fact about the slide he
3 put on the board is not just how it distributes itself but also
4 what the total number of people who subscribe to anything is.
5 And the more you increase the price of the stand-alone
6 bundle --

7 THE COURT: Stand alone bundle?

8 A. Excuse me, that was a bad stupid choice of words. You got
9 me. The stand-alone channel. The more you increase the price
10 of the stand-alone channels, then the more likely these guys
11 are going to buy nothing. All right? And that's in fact what
12 the data show, that you lose a third of the multi-channel
13 viewers by raising the price.

14 Now, you still get this very strange result. So, the
15 next point is why do you get this strange result. And,
16 remember, Dr. McFadden was talking about the sort of
17 terminology and the mathematical assumptions. This is where
18 they come into play.

19 Every demand equation you estimate will have weird
20 properties when the price is really high relative to anything
21 that could plausibly occur in the market. Like if you assume a
22 linear demand curve, there is going to be a price at which
23 demand becomes negative. All right? If I estimate a linear
24 demand curve for Hondas, I'm going to find that if the price
25 goes to a million dollars for a Honda, all the consumers in the

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1 country are predicted to go into the business of making Hondas.
2 They have a negative demand which means they bring stuff, they
3 make it themselves. Right? Now that's obviously implausible
4 and can't happen. Likewise, if I make an assumption like in a
5 logistic model, which is a curvature where the demand curve
6 never hits -- demand never hits zero, that means that at a
7 price of a million dollars there are still people out there
8 buying Hondas.

9 Dr. McFadden is absolutely right, that's a
10 mathematical property of the model I estimated, which is a
11 conditional logit demand model, but it's a property of every
12 logit model. It's a property of Dr. Pakes' model. It's a
13 property of Professor McFadden's model predicting the demand
14 for BART.

15 So, it is just a consequence of extreme values in a
16 functional form that was not picked to deal with extreme
17 values. It was picked because it would do well; it would fit
18 the data well in plausible ranges of prices.

19 Q. How could you go about testing whether you're right or
20 whether defendants' experts are right on this point?

21 A. About the price sensitivity point, or about the prediction
22 between bundle customers versus stand-alone customers? There
23 are two issues here. One is price sensitivity, and the other
24 is how they distribute themselves.

25 Q. About either.

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1 A. OK. Basically we can go back to what I testified about
2 initially, which is that what the demand relationship actually
3 looks like depends on the restrictions you place on the
4 coefficients in the utility function. And there are two ways
5 to go about this, as what Professor McFadden calls the
6 mathematical mumbo jumbo and what I call simply the choice of
7 functional form.

8 You can restrict the logit error, the random component
9 of demand for the channels for which predicted usage is
10 extremely low -- which we did in the RSN one and the RSN two
11 case -- you can just look at the multi-channel viewers, and
12 every time their viewing time fell below some threshold you
13 just assigned them zero as the utility derived from that
14 channel, so you take that out of their choice set. That's the
15 first way to do it.

16 The second way to do it is you can jiggle the
17 coefficient on the general utility from watching baseball,
18 which is one of the terms in the model. It doesn't have
19 anything to do with time or anything; it just has to do with
20 having access to it.

21 THE COURT: Well, let me just follow up on that.
22 Before we talked about the person who just likes to watch the
23 game, and you said they don't really care about the teams, they
24 just like the game, so they're going to go for the cheaper one.
25 So, if somebody is selling their team for \$6 a month, they're

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1 going to take that one because they get to watch baseball.

2 THE WITNESS: Right.

3 THE COURT: But what if what they really like in
4 watching baseball is the variety of watching all the different
5 teams?

6 THE WITNESS: Yes.

7 THE COURT: Then wouldn't they go back to the package?

8 THE WITNESS: This gets to this issue of there is a
9 coefficient in the regression, in the utility function, that
10 picks that up. All right? And as you recall in my testimony,
11 we have more parameters in the model than we can identify, we
12 can actually estimate, so we actually make an assumption about
13 that one, and we make the assumption that takes the lowest
14 possible value, and the reason we do that is if you pick higher
15 values you get bigger damages.

16 THE COURT: I see.

17 THE WITNESS: And we don't have a principled reason
18 for picking a higher number. Like in the Crawford and
19 Yurukoglu paper the value of that parameter they pick is
20 something like three or four. We pick one. If we pick three
21 or four, the damages would be higher.

22 THE COURT: Do you have any basis of picking one over
23 three or four, or just to be conservative?

24 THE WITNESS: No. We don't have -- we can't identify
25 that parameter with the data we have.

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1 THE COURT: I see.

2 THE WITNESS: If we have more data, we can identify
3 that parameter.

4 THE COURT: So you just pick the lowest number to be
5 conservative.

6 THE WITNESS: Right. And if we raised it, we would
7 get different answers, we would get more intense competition
8 between the stand-alone channels and the bundle, and get a
9 lower predicted price of the bundle, but we can't justify that,
10 so we didn't do it.

11 THE COURT: OK.

12 Q. So, Dr. Noll, I'm going to put up a board that defendants
13 used during Dr. Pakes' examination. I am not sure you can see
14 it from where you are sitting.

15 A. Yes.

16 Q. It had these four points and then a conclusion on it. He
17 said these were all flaws with your model, and he claimed that
18 you had never responded to any of them. I'd like to walk
19 through them one by one.

20 Let's start with the first one, that you ignored
21 supply side bargaining. First, is it true that you never
22 responded to this criticism before?

23 A. No, this is in every report I've written. Why we don't do
24 this is in every report I wrote.

25 Q. So, briefly to repeat it -- well, first, did you ignore the

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1 bargaining that would occur amongst buyers?

2 A. No, that was one of the very first -- the very first
3 decision about the model was how are we going to model the
4 supply side. That was the very first thing we decided. So,
5 you consider all of the various ways to do it and decide based
6 on the circumstance which is the one that is most likely as a
7 theoretical matter to replicate the behavior in this market.
8 So, we picked one based on what we thought was a realistic way
9 to model this market.

10 THE COURT: Did you model the bargaining? What did
11 you do with the bargaining?

12 THE WITNESS: Every single way of characterizing the
13 supply side involves a bargaining. For our model's purposes
14 the model itself doesn't have to predict the wholesale prices
15 of things, because we are assuming that they're nondistorting.
16 That's why I go through all the agreements, to see what do the
17 contract forms actually look like.

18 If I wanted to build a model -- like suppose we decide
19 that the way they're going to slide these contracts is a share
20 of revenue instead of a per-subscriber fee.

21 THE COURT: Wait. Could you tell me between who and
22 whom you are talking about now? Between a team and an RSN, or
23 an RSN and an MVPD? Who?

24 THE WITNESS: We can do everything. We can do team
25 versus an RSN, although that's irrelevant in the Internet.

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1 It's also irrelevant in the single channel thing because teams
2 could do it themselves. So, if the team didn't like the
3 bargain it got from the RSN, it already owns the feed, the feed
4 is already being distributed nationally, it could sell it
5 itself, but we could include that possibility.

6 THE COURT: You could but you didn't.

7 THE WITNESS: Let me tell you why. It's not in the
8 model because it doesn't matter; it doesn't affect the results.
9 Remember, the goal of the model is to predict the price of the
10 bundle. That's the goal.

11 THE COURT: Right, that's true.

12 THE WITNESS: And if the nature of the agreements
13 between a buyer and a seller in these intermediate markets
14 doesn't affect that final price, then you don't have to model
15 it. If an issue in this case hinged on how much the teams were
16 paid by the RSNs, for example --

17 THE COURT: OK.

18 THE WITNESS: -- then we with estimate it.

19 THE COURT: Fine. Let's move on from RSN to MVPD.

20 THE WITNESS: Same thing. Here the issue about what
21 is the plausible kind of contract that would arise under a
22 condition of serious double marginalization is something you
23 actually think about, and you say, OK, when serious double
24 marginalization --

25 THE COURT: Well, I'm getting rid of double because

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1 you didn't bother with the first.

2 THE WITNESS: No.

3 THE COURT: No, no, wait a minute. Hold on. If there
4 is no marginalization -- if that's what it's called -- between
5 the team and RSN -- I'm not worried about double -- but now
6 let's talk between the RSN and the MVPD.

7 THE WITNESS: The story there is to make the same
8 assumption, that if the RSN and the MVPD have a contract form
9 that in a single channel world causes serious double
10 marginalization, we know they can switch to another contract
11 form that either has much less or none. And one that has much
12 less is simple revenue sharing, which is what single channel
13 guys do; if they don't do fixed fee, they do revenue sharing.
14 They say you passed 60 percent of your revenue, which we
15 already observed in some of the contracts that have been
16 discovered in this case. So, that's the point, if I wanted to
17 answer the question what share of retail revenue would go to
18 the RSN, I could --

19 THE COURT: From the MVPD?

20 THE WITNESS: Between the RSN and the MVPD.

21 THE COURT: OK.

22 THE WITNESS: What share of the MVPD's retail revenue
23 from that stand-alone channel would go to the RSN, I would need
24 another model, and I could estimate it, but it wouldn't affect
25 the retail price. That's the point. All right? Unless there

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1 is a reason to do it that affects the retail price, there is no
2 point in complicating the model to do it. All right? And
3 that's explained in every report, why don't we do it.

4 THE COURT: I think the real question for this hearing
5 is: If C&Y did it, and it was central to their analysis, and
6 in fact it changed the outcome of the analysis, how come it
7 mattered there but it doesn't matter here? That's what I need
8 to understand.

9 THE WITNESS: The significant contribution of Crawford
10 and Yurukoglu's paper is that it succeeded for the first time
11 including this kind of bargaining in a model. It's a technical
12 point; it isn't specific to the industry.

13 The actual result of the paper that unbundling has no
14 significant effect on consumer welfare is not its important
15 contribution, because that's contested. That's still
16 contested. There are people who disagree with them about that
17 conclusion.

18 What they did that's extremely important -- and I am
19 very proud of Greg for having been a coauthor of this paper --
20 is that they introduced a whole new dimension to the ability of
21 applied economists to address this question by putting the
22 bargaining into the model. They have not yet, or nobody yet
23 has switched the nature of the bargain to revenue sharing or
24 fixed fee. And that's what you would have to do to get a
25 really great perfect answer to the question should the FCC

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Noll - direct

1 require unbundling.

2 Greg's original dissertation was on another FCC rule
3 which is the FCC adopted a rule of a price cap on cable
4 television on a per-channel basis, and he addressed the
5 question does that increase consumer welfare. And that's
6 actually the first paper that ever applied GMM to the study of
7 cable television, and that's a terrific paper too. The demand
8 side is Greg's result. And what he did is he didn't have the
9 supply side model; he got his paper published in the RAND
10 Journal --

11 THE COURT: But that was a different paper, an earlier
12 paper.

13 THE WITNESS: -- which Ariel Pakes edits. Yes. Ariel
14 Pakes was an editor of the RAND Journal, and Greg's paper is in
15 the RAND Journal, and it didn't have a supply slide.

16 THE COURT: Sure. But that is a different paper.
17 That's not what we are calling the C&Y paper.

18 THE WITNESS: No, but the demand side of the C&Y paper
19 is derived from that paper.

20 THE COURT: I understand that. But we are talking
21 about supply side and whether you had to include the bargaining
22 component.

23 THE WITNESS: And my opinion is that I do not because
24 it wouldn't be -- I'm not examining the replacement of bundles
25 by unbundled channels. Instead -- Crawford and Yurukoglu --

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1 THE COURT: I got that.

2 THE WITNESS: I'm doing something different, and in
3 the case that I'm doing it I have a series of relatively
4 homogenous channels that are substitutes for each other, and it
5 wouldn't make sense to do it in my context.

6 THE COURT: OK.

7 Q. Dr. Pakes said yesterday that Crawford and Yurukoglu didn't
8 model bargaining between content suppliers like teams and
9 content distributors like RSNs because it wouldn't make any
10 difference. Is that analogous to what you just described doing
11 here?

12 A. Yes. It's not just teams. Remember, sports is a tiny
13 fraction of what they do, it's ESPN and Fox basically. Almost
14 no channels available produce their own programming; they buy
15 it from other people. So, there is a contractual issue between
16 program content suppliers like leagues and teams and the
17 channels that carry their program content, such as A&E or Oprah
18 network or whatever. There is a contract relationship there.
19 And, yes, they decided not to model it, and the reason they
20 decided not to model it is because they looked at it and
21 decided it wasn't important, and the reason they decided it
22 wasn't important is the same reason I decided it's not
23 important.

24 Q. Is your understanding of Dr. Pakes' criticism that if your
25 facts are right, your model is wrong; or is it that your facts

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1 are wrong?

2 A. I don't know, because he doesn't confront the explanation I
3 give for it; he just says because Crawford and Yurukoglu did
4 it, you should do it. He doesn't address my reasons for saying
5 that I did it; he just ignores them and says because they did
6 it, you should do it.

7 Q. And you mentioned Dr. Crawford's dissertation, and I know
8 Dr. Pakes mentioned that he was Dr. Yurukoglu's dissertation
9 advisor. Did you have any similar role with Dr. Crawford's
10 dissertation?

11 A. Yes, I was one of Dr. Crawford's Ph.D. advisors. He took
12 my courses as a graduate student. He was in my seminars as a
13 graduate student, and he's a personal friend; I have known him
14 forever. I've known him since he was a graduate student.

15 Q. And on that dissertation in particular?

16 A. Yeah, I was one of his advisors. I wasn't his principal
17 advisor, Tim Bresnahan was, but I was his secondary advisor.

18 Q. So, let's move on to Dr. Pakes' second concern. His second
19 concern -- well, actually would you prefer to go to the next
20 one or --

21 A. Yes, I would prefer to do the joint ventures next, because
22 it's a natural walking point to get to multi products.

23 Q. OK. So this critique is that you ignored the incentives of
24 teams and leagues as joint venturers. First, have you
25 responded to this criticism?

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1 A. Yes. Again, I have explained why the assumption of joint
2 ventures -- whether it's in the Pakes report, or whether it's
3 in the Ordovery report about his feed fee analysis -- why that
4 amounts to collusive pricing, because it's using the joint
5 venture to coordinate the prices of the bundle with the prices
6 of the stand-alone channels. And my assumption is that the
7 entity that sells the bundle is organized in a way to be
8 separate.

9 Joint ventures among horizontal competitors are
10 supposed to be set up in a way that they have independent
11 pricing so that they don't undermine the competition among the
12 joint venturers.

13 Q. And did you ignore joint venture incentives?

14 A. I assumed that they were not being followed by the pricing
15 of the bundle, that MLB.com was pricing the bundle as a
16 stand-alone product, not using it as a mechanism to coordinate
17 with the pricing of the stand-alone channels.

18 Q. And how did leagues' interest in central revenue and
19 revenue sharing fit into that assumption?

20 A. Well, part of what the joint venture does relative to teams
21 is transfer money from local revenue or team revenue to central
22 revenue. And as everybody has noted, the central revenue is
23 shared equally, the local revenue varies enormously according
24 to the popularity of the team, which depends primarily on the
25 size and wealth of the market in which its located, but it also

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1 depends on the size of the broadcast area which is a historical
2 accident. Cities on the East Coast tend to have smaller
3 markets, broadcast markets, than cities in the West because of
4 the history of how baseball franchises and hockey franchises
5 were founded.

6 Q. You mentioned both Dr. Pakes and also Dr. Ordover's
7 analysis. How does his analysis have the same problem?

8 A. Well, they both have this problem that the behavior of the
9 league bundle is to sacrifice its own profits for the purpose
10 of helping the individual stand-alone channels make more
11 profits. And so that's price coordination.

12 No matter what words you use to describe it, you could
13 call it a joint venture, you could call it multi-product
14 pricing, you can call it anything you want, but it's still
15 price coordination between horizontal competitors.

16 THE COURT: And who is doing that? Which of the
17 models is doing it that way?

18 THE WITNESS: Ordover and Pakes assume that you have
19 coordinated pricing, and I assume you don't.

20 THE COURT: All right. Coordinated between the bundle
21 and all the stand-alones. They're thinking it's all -- that's
22 the point of multi-product is when you sell one it affects the
23 other, you sell the other, it affects --

24 THE WITNESS: You are way ahead of me, but you're
25 absolutely right.

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1 THE COURT: I wish to God.

2 THE WITNESS: That's why I didn't do joint venture
3 first.

4 THE COURT: All right.

5 Q. Well, let's move on to multi-product pricing.

6 A. Yes.

7 Q. Dr. Pakes mentioned both multi-product pricing and MVPD
8 markup and said you ignored them and never responded. Have you
9 responded to these criticisms?

10 A. Yes, I have, and it's the same story. I didn't use the
11 word multi-product pricing; I used the word instead collusion.
12 Because this is the ultimate step.

13 You know, he puts the label DirectTV on it, but that's
14 not what actually he is doing. Whether it's DirectTV or
15 anybody else, he is envisioning a world in which a single
16 monopolist sells everything, all the channels, and then what is
17 the monopoly profit maximizing price for selling all the
18 products? He is assuming away any competitive constraint or
19 any constraint on the extent to which you might collude. If it
20 were DirectTV doing it -- what you are implicitly assuming --

21 THE COURT: So, in other words, it's the same MVPD
22 that is selling the stand-alones and the bundle, and if they
23 are coordinating the prices --

24 THE WITNESS: Right. So, if it's DirectTV, what you
25 are assuming is DirectTV has an exclusive license to all

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1 baseball, and they get to price everything.

2 THE COURT: Right. The stand-alones and the multi.

3 THE WITNESS: Yes. Now, it could be DirectTV, and you
4 could say, you know, OK, DirectTV, we're making you the
5 baseball-wide monopolist, or it could be the baseball executive
6 committee. It doesn't really matter who it is. It's still
7 monopoly pricing of all the horizontally competing products.

8 Q. And then the second half of this, MVPD markup, did you
9 ignore that?

10 A. Of course not. The MVPD markup per se is not in the model.
11 What's in the model instead is the division of the surplus
12 between the marginal cost of the channel and the retail value.

13 So, it is not the case that we're ignoring MVPD
14 markups; it's just that the division of the revenues and the
15 profit margins of each of the people along the horizontal chain
16 we are not including in the model because our assumptions about
17 how these markets work is just different than his, and our
18 assumptions are these don't matter, these markups along the way
19 don't matter.

20 THE COURT: I'm not understanding again. The MVPD,
21 how is it making money from the retail sales?

22 THE WITNESS: Because remember we're maximizing joint
23 profits. Joint profits are price times quantity minus costs
24 for everybody. So, the retail price quantity is the revenue,
25 and then the sum of all the costs along the way is the cost,

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1 and what is left over is the excess of revenues over costs.

2 THE COURT: And that goes to the MVPD.

3 THE WITNESS: Well, initially it goes to the MVPD, but
4 then the revenue sharing contracts or the fixed fee contracts
5 cause it to pass it along.

6 THE COURT: So that's their markup.

7 THE WITNESS: Yes.

8 THE COURT: So it is there.

9 THE WITNESS: It's there, but what is not there is the
10 word.

11 THE COURT: Right. I mean they have to make a dollar,
12 they have to make money.

13 THE WITNESS: Of course. That's what the bargaining
14 is all about. That's why there is bargaining, you know, in
15 every model, between DirectTV and whoever sells them the
16 content, probably the team and Major League Baseball. All
17 right? There is bargaining, and nobody expects the bargain
18 that doesn't recover their costs.

19 THE COURT: And then some. Everybody needs to make
20 money.

21 THE WITNESS: Exactly.

22 MR. DUBNER: We seem to have lost our slide.

23 THE COURT: Yes.

24 MR. DUBNER: If you could give us one moment.

25 THE COURT: OK. Because there was a nice picture of

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1 New York or some city.

2 MR. DUBNER: Could we take a very short recess?

3 THE COURT: Yes, but let's not move around during it.

4 We will just call it a pause. It's a pause, not a recess.

5 (Pause)

6 THE COURT: There we are.

7 MR. DUBNER: Here we go. We're back on.

8 THE COURT: OK, the pause has ended.

9 MR. DUBNER: Thank you for bearing with us.

10 Q. I believe we were just talking about markup.

11 A. Yeah. And we're done.

12 Q. In your model all of the actors, the MVPDs, etc., they are
13 making a profit, correct?

14 A. Yes, they are. There wouldn't be any possibility for any
15 kind of a bargain if they weren't. No one agrees to something
16 where they can't at least recover their costs.

17 Q. And what do the current profit margins in the industry tell
18 you about whether that's plausible?

19 A. Well, all of the players in this industry have high
20 margins, so there isn't any issue here. I mean, the place
21 where you would worry about it most, which is the one that I
22 examined, was whether the bundle would continue to exist. That
23 is the most legitimate concern because its revenues are
24 relatively low and its market penetration is relatively low.
25 So, that one is explicitly tested.

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1 But in the case of DirectTV, and Comcast, and the
2 regional sports networks, and Major League Baseball, they all
3 have extremely high margins.

4 Q. And related to this Dr. Pakes mentioned fixed costs. Did
5 you deal with fixed costs in your declarations and your model?

6 A. Well, again we were getting at what the cost of actually
7 adding these products are, and we had some cost data from the
8 NHL and MLB about their costs. Right? We know that these
9 channels are already being distributed in the bundle and a
10 stand-alone with blackouts.

11 THE COURT: These channels are being distributed in
12 the bundles?

13 THE WITNESS: They are being distributed both in the
14 bundle and as stand-alone channels with the games blacked out.
15 So that means the amount of revenue over marginal costs with
16 the blackouts is already sufficient to cover their costs.
17 Eliminating the blackouts is actually a savings because it
18 eliminates some of the cost of offering the product.

19 So if the current set of products are profitable for
20 all entities, then you don't have to worry, you are reducing
21 the total profits by introducing competition, but you're not
22 causing anything to become unviable. And in particular the one
23 that would be most threatened would be the bundle, and we
24 checked the individual RSNs and the bundle, and we found that
25 those are all still profitable given the cost data that we

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1 have, and so we don't have to worry about that anymore.

2 Q. And Dr. Pakes specifically mentioned I think DirectTV
3 satellites and Comcast's cable lines. Do you consider those a
4 meaningful example?

5 A. Meaningful examples of what?

6 THE COURT: He said they were very expensive,
7 satellites cost a lot of money, and we have to make money to
8 pay for the satellite.

9 A. That's absolutely right, and that's part of what their
10 revenues cover. It's not marginal with respect to markups.
11 Markup refers to the price minus the variable cost, the cost
12 that depends on quantity. And the cost of the satellite
13 system, the cost of the cable system does not hinge on whether
14 you decide not to black out a game on the Yankees channel.
15 Those costs are already being borne through the current system.

16 Q. And you assumed that all of the costs to the bundle were
17 marginal costs rather than fixed costs, at least in your early
18 declarations?

19 A. Well, not all but close to all. I mean the reality is the
20 data they provided us does not allow us accurately to estimate
21 marginal cost. We do the best we can with the data they have.
22 And I think we end up attributing about 50 to 70 percent of the
23 costs they produced for us to marginal costs and the rest to
24 fixed costs. And we checked, and sure enough they all covered
25 their fixed costs.

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1 Q. And why is that a conservative assumption to attribute less
2 to fixed costs than might be the case?

3 A. The lower marginal -- this is why they objected to my
4 original way of doing it -- the lower marginal costs are, the
5 more intense the price competition is between the stand-alone
6 channels and the league bundle, and hence the lower the price
7 of the league bundle and the higher the damages.

8 Q. OK. Let's go to Dr. Pakes' last criticism. He argued that
9 your model lacks equilibrium and specifically that the Yankees
10 would have incentive to deviate. Have you responded to this
11 criticism previously?

12 A. Yes. In fact it's discussed at length in one of my
13 reports.

14 Q. And so his specific point or example was that the Yankees
15 could leave the bundle and every team would profit. Why don't
16 you consider that an apt criticism?

17 A. The reason is that one of the properties of these kinds of
18 joint operations is that it's likely to be the case that
19 individuals who are part of the cooperative have an incentive
20 to not cooperate. And the Yankees in particular as the most
21 valuable team in the league contribute a lot more to the
22 revenue of the bundle than their 1/30th share of the profits,
23 and so they have the highest incentive to deviate, and that's
24 true even today. We have calculated -- and it's in my
25 report -- I calculated that in the current league bundle, if we

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1 apply the arguments that both Dr. Pakes and Dr. Ordoover made,
2 the Yankees currently have an incentive quote to defect from
3 the bundle.

4 THE COURT: But it's the second half that confused me.
5 So, if they did defect, you conclude that all the teams make
6 more money? I mean that seems odd.

7 THE WITNESS: Remember that the model is not -- they
8 say they all make more money, but --

9 THE COURT: Who says that?

10 THE WITNESS: -- that's not actually what happens.

11 THE COURT: Well, who says that?

12 THE WITNESS: Their experts say that.

13 THE COURT: Oh, their experts, applying your model.

14 THE WITNESS: Because what happens is the reason the
15 Yankees defect is because if they defect and nothing else
16 happens, the Yankees make more money.

17 THE COURT: Well, yes, the Yankees do. I understand
18 that. But what about the other teams?

19 THE WITNESS: Well, then you are left with 29.

20 THE COURT: Correct.

21 THE WITNESS: And the best team among the 29 defects,
22 and then the next one defects, and then the next one defects.
23 And when you're left, when it's all done, when all the dust
24 clears you are left with no bundle. And we know the bundle is
25 profitable. That is to say if they collaborate, the

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1 equilibrium is either no bundle at all or a bundle that has
2 everybody in it by rule. The reason you have a rule that you
3 must participate in the bundle is because the bundle would
4 unravel if it weren't for the agreement, just like the national
5 broadcasting contract would unravel.

6 THE COURT: Let's back up. The criticism is of the
7 model, that the model is not economically sound, so to speak.
8 So, they're saying one way they're showing that is -- and I may
9 have this wrong -- but if the Yankees were to be able to
10 defect, and they did, all the other teams would make more
11 money, and they say that doesn't make sense, so it shows the
12 model is flawed. And I'm only here to care about whether the
13 model is flawed.

14 THE WITNESS: In order to test that -- and that's what
15 I said they say -- you have to reestimate the entire model with
16 assumptions about how the demand for the bundle changed because
17 it was a bundle of 29 instead of 30. You couldn't start with
18 the parameters of the current model. And that's point one.

19 Point two --

20 THE COURT: Wait. So, are you saying the equilibrium
21 test that they are trying it apply doesn't apply? Is that what
22 you're saying?

23 THE WITNESS: Well, as both Dr. Ordover and Dr. Pakes
24 say, they actually aren't estimating an equilibrium; they're
25 just showing that there is an incentive to deviate.

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1 THE COURT: That's exactly what I just asked you, that
2 their alleged test for equilibrium you would argue is the wrong
3 test.

4 THE WITNESS: Right.

5 THE COURT: OK.

6 THE WITNESS: What they're saying is that there is an
7 incentive, holding constant things in the model they shouldn't
8 hold constant; there is an incentive for a team to deviate.
9 And I agree there is an incentive. Even if we recalibrate the
10 model there is an incentive.

11 But the problem is that is always true of
12 collaborations, that in a world in which there is revenue
13 sharing, it's always the case that the most valuable member of
14 the collaboration doesn't have a private incentive to
15 participate.

16 THE COURT: But it's not my concern. My concern is
17 the model and whether the model is flawed. And the attack was
18 that the model somehow is defective because it doesn't reach an
19 equilibrium. And your answer, I guess, is, well, this really
20 isn't part of the model; the rule is they are going to all stay
21 in the bundle to do the 1/30th revenue share and even if it's
22 not economically in their best interests. That's the way it
23 is. Did you hear what I just said?

24 THE WITNESS: Not quite.

25 THE COURT: You didn't hear it, or you don't agree?

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1 THE WITNESS: The answer is it's close to that but
2 it's not quite. The reason they have rules is because they
3 have regarded in their collective interests to collaborate even
4 though they know --

5 THE COURT: -- that it's not in their economic self
6 interest.

7 THE WITNESS: Once they do it they would all have an
8 incentive not to do it, but they would still agree to do it
9 because it's in their collective interests to do so, yes.

10 THE COURT: Right.

11 Q. Dr. Noll, do you understand this Yankees deviation scenario
12 to be a criticism of your model or a criticism of your
13 assumption that the league would retain the rule that requires
14 all clubs to participate in the bundle?

15 A. I think they want to take their results to the next point
16 and say the league would change the rule. Because they can't
17 really defend the deviation as real in the current rule. What
18 would have to happen is the rule at the league level about
19 making the feeds available, and participation and all of that,
20 and the contractual relations the league has with Comcast and
21 DirectTV, and indeed MLB.tv, those relationships would all have
22 to disappear. So, it's not that they just change the rule
23 about the use of live feeds, but they would also have to cancel
24 the contract they have and all this stuff, or rewrite them at
25 least.

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1 So, what they are really saying is that the whole
2 panoply of rules that affect national distribution of
3 broadcasting over the Internet and through MVPDs, that whole
4 set of policies and rules and practices would have to change.

5 You know, they do not take into account at all why the
6 leagues do this. All right? Why is it the case that leagues
7 have rules that restrict the bad behavior of individual teams?
8 They simply don't address that question. Their assumption is a
9 very narrow one: If it's a profit to defect in this case, that
10 means if every team has an incentive to unravel the bundle,
11 then they'll do it.

12 Q. So based on what you heard yesterday, doctor, can you
13 summarize your disagreements with Dr. Pakes regarding this
14 case?

15 A. Well, with Dr. Pakes the key issue is what constitutes a
16 realistic way to model the relationships between teams and
17 leagues on the one hand and the television industry on the
18 other. It is mostly about MVPD relationships, that most of the
19 criticisms they have the internal modeling assumptions do not
20 apply when the issue is should teams be able to have their own
21 independent websites and stream their games. That has nothing
22 to do with most of the criticisms.

23 Some of the criticisms -- for the most part these
24 criticisms are only about the DirectTV model -- because we have
25 a DirectTV model of Major League Baseball and nothing else

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1 because of data limitations -- and they are about that. And
2 the nature of these disagreements is economists have a number
3 of theories of how imperfectly competitive markets work, and
4 which theory you ought to apply in a particular market setting
5 depends on the institutions and facts of that market.

6 It's not the case that there is a single best model of
7 the supply side in oligopolistic product differentiated markets
8 that always works. And in particular in this case you simply
9 cannot ignore, A, the existing contract forms that they use,
10 and, B, the rules of the league for how they engage in the
11 collective activity and why they do it. And that's what they
12 do, they ignore both of those.

13 Q. And do you understand Dr. Pakes to be challenging your
14 assumptions about how the industry works or about given your
15 assumptions whether you model them incorrectly?

16 A. I think he is basically disagreeing with me about the
17 appropriate supply side of the model, but that constitutes a
18 lack of connection between what I said about the institutions
19 and the existing agreements and what he says. He actually --
20 you know, he is not debating it on the grounds of what are do
21 institutions and agreements say is the appropriate model. It's
22 more along the lines I think this is the right model, and he is
23 ignoring basically my reasons for it and saying, well, you
24 didn't do what they did, therefore it's wrong.

25 Q. Now, you mentioned a moment ago the limitations of the

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1 data, and I know defendants sometimes criticized you for making
2 assumptions where you didn't have data. I want to run through
3 some criticisms that defendants made, and I'm going to ask you
4 the same question for each.

5 Could you have addressed this criticism with the data
6 that you had?

7 A. No. In fact, this is dealt with in every report about the
8 single most important piece of information I would like to have
9 is more data about price. And you can't take one year of data
10 for the Internet -- in the case of the National Hockey
11 League -- or one year of data about DirectTV plus the Internet
12 for Major League Baseball and get any price variation.

13 The price variation that exists in the data is not of
14 the form that enables you to do a better job of identifying the
15 relationship, the responsiveness of demand to price. So, the
16 single most important additional data that would improve the
17 model is more information about pricing, that would enable you
18 to put price moments as one of the things that explains demand
19 directly into the model instead of the way we do it, which is
20 just normalize it.

21 Q. And in the absence of that data, did you make an assumption
22 that you believe was reasonable on the issue of price?

23 A. Yes.

24 Q. That you would use that data for?

25 A. Yes. And what we did is we inferred the demand curve from

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1 the data on marginal cost, using the equilibrium pricing theory
2 of a firm with market power, and so that's how we got the
3 demand relationship. I frankly do not know any other way to do
4 it than to do it that way.

5 Q. And if you got the data, you would be able to and would
6 refine your model to try and do it another way? Is that right?

7 A. Exactly.

8 Q. Let's go to the second one: Not modeling internet MVPD
9 competition.

10 A. Yes.

11 Q. What kind of data would allow you to do that?

12 A. Well, in the case of hockey you would have to have some
13 MVPD data. In the case of baseball we have DirectTV and
14 Internet data for one year. But what you need there is
15 intertemporal variability in response to intertemporal
16 differences in other things. So, the way to model the
17 competitive process is to have more than one observation of
18 what happens in a year for DirectTV plus the Internet. Then,
19 in addition to that, it doesn't make any sense at all to say
20 that the only competition going on to DirectTV is the Internet,
21 because obviously it's competing with Comcast, and it competes
22 literally everywhere Comcast is present, it competes with
23 Comcast. So you would need the Comcast data not only to
24 measure Comcast versus DirectTV competition but also
25 competition between MVPDs and the Internet.

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1 Q. And what data did Comcast produce in this case?

2 A. They produced data for a short period of time in someplace
3 in Pennsylvania. It wasn't enough to use for any purpose.

4 Q. And then let's go to the last one: Not modeling in-market
5 revenues. What data would you need to do that?

6 A. You would need the same data we have for the bundle for the
7 in-market RSNs. You would need information about how many
8 subscribers they have, how much viewing they have and what
9 their prices were. We have some of that information but
10 nowhere near enough to incorporate that in the model.

11 Q. Dr. McFadden suggested that you should have done a survey.
12 What do you think of that suggestion?

13 A. Well, again I responded to this in one of my reports. In
14 this case the sample size would have to be huge, because first
15 of all the product we are observing is only bought by one half
16 of one percent. If you are going to do a survey to address a
17 problem in the automobile industry --

18 Q. And if I can just clarify one thing, they are one half of
19 one percent of what?

20 A. Of all households. So, you know, you can do surveys over
21 the Internet, or you can do surveys by making telephone calls.
22 The sample size you would have to get to find the one half of
23 one percent that was large enough so you could take into
24 account the variations across the 72 baseball markets, the
25 variations across the viewing times of particular teams, would

F3J7LAU1

Noll - direct

1 be astronomical. You would have to have a sample size in the
2 millions. So, it's just a completely implausible proposal for
3 this particular problem.

4 Q. And finally let's turn to a couple of things Dr. Ordover
5 talked about. First he repeatedly described the league rules
6 requiring clubs to provide access to their feeds as giving it
7 away for free. Is that an accurate characterization?

8 A. No. What he means by giving it away for free is it is not
9 a per-subscriber fee. Obviously they are not giving it away
10 for free because they get 1/30th of the profits. It's just the
11 form the price takes.

12 This is simply a verbal attempt to make a false
13 characterization. You know, to say they're giving it away for
14 free because they don't charge a per-subscriber fee would apply
15 to Major League Baseball's contract with DirectTV because that
16 contract is not a per-subscriber fee, so therefore they're
17 giving it away for free even though they get millions from it.

18 THE COURT: Is the only revenue the 1/30th share when
19 the team subscribes to the bundle?

20 THE WITNESS: Yeah.

21 THE COURT: That's it. OK.

22 Q. Is Dr. Ordover correct that it's unheard of for teams to in
23 his words give away the product for free if it results in a
24 league product and a team product competing in the same area?

25 A. No. Again, there are several examples, including DirectTV

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Noll - direct

1 and the National Hockey League, where there are certain areas
2 in-market that DirectTV is allowed to include NHL broadcasts in
3 its bundle.

4 (Continued on next page)

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Noll - direct

1 Q. And then let's talk about Dr. Ordoover's experiment where he
2 had teams sequentially raise the feed fee by one cent. He
3 described that as a bargaining model. Do you agree with that
4 characterization?

5 A. No, it's not. It has nothing to do with bargaining.
6 Indeed, he said it's like Crawford and Yurukoglu and then he
7 cites another paper about bargaining between HMOs and
8 hospitals. There's no relationship between what he does and
9 bargaining models.

10 What he's doing is much more like what Professor Pakes
11 did on Yankees deviations. He's testing whether if you did
12 this, they would benefit or not. And then it has this
13 additional property, they actually coordinate, because one team
14 raises by one cent and another team raises by 1 cent. Every
15 time that one-cent increase happens, the league bundle makes
16 less money, but it does so because the individual team makes
17 more, so that's not a bargain. Bargains aren't I'll give you
18 still more because I love you. Bargains are people who have
19 competing interests trying to divide a surplus, so it's not
20 bargaining. And then they all stop at the same place, that's
21 collusion.

22 Q. And is his method standard in any area of the literature?

23 A. I have never seen anything like that in my life. I don't
24 know where he got that from, but I've never seen it. And it's
25 certainly not in any of the papers he cites.

F3jglau2

Noll - direct

1 Q. Thank you, Dr. Noll.

2 MR. DUBNER: Your Honor, I'll reserve the last few
3 minutes I have in case we have any redirect.

4 THE COURT: Okay. You did stop seven minutes early by
5 my time. He had an hour and five minutes and he started at
6 five after, so he stopped seven minutes early. But because we
7 have a breather a little bit, I thought we would take just a
8 five-minute recess if we could, just five. I know it's hard to
9 get everybody back in five, but I'd like it.

10 (Recess)

11 (In open court)

12 THE COURT: Ms. Wilkinson.

13 CROSS-EXAMINATION

14 BY MS. WILKINSON:

15 Q. Dr. Noll, one of the criticisms of your model was that you
16 didn't put in enough data about the potential purchasers and
17 their preferences, right? You understand that's one of the
18 criticisms?

19 A. One of the criticisms is that people who do not buy
20 anything today are not explicitly modeled.

21 Q. And Dr. McFadden is basically saying you didn't create a
22 proper demand side of the model, right, the people who want the
23 products, right?

24 A. I don't think that's exactly -- I don't think it's the
25 nature of the model. I think it's the details of how it was

F3jglau2

Noll - cross

1 done, how it was estimated that he's criticizing, but whatever
2 it is, it is.

3 Q. And you said that what you did was just like what Dr. Pakes
4 did in his article called BLP, right?

5 A. No. I said the most recent BLP article. I was referring
6 to the 2004 article in the Journal of Political Economy.

7 Q. And in BLP, I put that article in front of you, right?

8 A. No. You put something from 1999 in front of me. This is
9 the voluntary exports paper. The one I was referring to was
10 the microdata paper.

11 Q. Did your counsel provide that? Do we have that?

12 A. This was cited in my report and it's cited by
13 professor -- I think Professor Pakes. Your experts cite it, so
14 this is one of the papers that's cited in the expert report,
15 and it's not this one, it's not voluntary export restraints. I
16 think I says something about microdata.

17 Q. Okay. I think I have that one, too.

18 MS. WILKINSON: Your Honor, I only have one other copy
19 of that one. Can I give it to him?

20 A. Sure.

21 Q. Is this the one you're referring to, Dr. Noll?

22 A. Yes.

23 Q. Okay. And in this survey, let's talk about -- and this
24 model -- the differences between what you did and Dr. Pakes,
25 okay?

F3jglau2

Noll - cross

1 A. Okay.

2 Q. Dr. Pakes has census data and you do not?

3 A. He uses demographic.

4 Q. It's yes or no, Dr. Noll. A simple question, yes or no?

5 A. Yes, demographic data from the census. The census is more
6 than --

7 Q. I didn't ask -- did you have census data? Yes or no?

8 A. I did not use the census data in my model and he did, yes.

9 Q. Dr. Pakes had demographic data; you did not?

10 A. Well, that's the data from the census; yes.

11 Q. Dr. Noll, you did not have demographic --

12 THE COURT: He agreed with you. He did not because he
13 didn't use census data.

14 Q. And you suggest and Dr. Pakes had a survey and you did not
15 do a survey, right?

16 A. He did a survey.

17 THE COURT: And you did not?

18 THE WITNESS: And I did not do a survey.

19 Q. Let's look at the numbers. You suggested that what you did
20 was similar in response to our criticism that you used a very
21 small dataset, yet you predicted that 44 percent of those
22 12.7 million viewers of the World Series would buy some
23 out-of-pocket product in your but-for-world, didn't you?

24 A. Yes, I did.

25 Q. And that was only based on DirecTV and MLB Internet if we

F3jglau2

Noll - cross

- 1 talk about MLB?
- 2 A. That's correct.
- 3 Q. So you didn't account for Time Warner?
- 4 A. Didn't account for Comcast and anything else, yes.
- 5 Q. Any of those. And so you took, get my numbers right, you
- 6 took 12.7 million as your beginning dataset, right?
- 7 A. Yes. I did not use all households. I only used a subset
- 8 of them.
- 9 Q. And Dr. Pakes took 100 million, right?
- 10 A. Yes. He used all households and I did not.
- 11 Q. Okay. And you predicted 43 percent would become purchasers
- 12 out of that dataset, right?
- 13 A. Of the 12-some million who watch the World Series, yes.
- 14 Q. At least 43 because you didn't account for any of the other
- 15 MVPDs?
- 16 A. That's correct.
- 17 Q. So that's the minimum?
- 18 A. Yes.
- 19 Q. And that meant that you would have an additional
- 20 5.4 million purchasers, right, that's the number, 43 percent?
- 21 A. I don't remember the exact percentage.
- 22 Q. 5.4 million is 43 percent --
- 23 A. If you say so. I don't remember the exact percent.
- 24 Q. And you can take a look at the chart table one in
- 25 Dr. Pakes' chart to make sure I have my numbers right, but

F3jglau2

Noll - cross

1 Dr. Pakes started with 100 million people and he only predicted
2 .0762 percent of the market would become purchasers, didn't he?

3 A. That's correct, because he -- his model was all households.

4

5 Q. I didn't ask for your explanation, Dr. Noll. I just asked
6 you a question, right? And that means he only predicted that
7 33,659 people would be purchasers, right?

8 A. I don't remember the facts about how many people he
9 predicted to be purchasers, no.

10 THE COURT: But certainly a much smaller percentage
11 than you're talking about. You were 43 percent and he's at you
12 said .04?

13 MS. WILKINSON: .0762 percent.

14 THE COURT: Right versus 43 percent in yours as to who
15 would become purchasers.

16 THE WITNESS: That's not comparing apples and oranges,
17 but yet.

18 THE COURT: I know you're rushing because we have a
19 30-minute deadline, but if I give you two of them, I could get
20 my question answered, so I do want to know why, so I'll give
21 her two more.

22 THE WITNESS: This was -- remember in my direct
23 testimony why I used such a low number of potential market, if
24 I do what Dr. Pakes did and expand the potential market to 100
25 million, the damages go way up.

F3jglau2

Noll - cross

1 MS. WILKINSON: Your Honor, I can't hear him. I'm
2 sorry, Dr. Noll.

3 THE WITNESS: I'm sorry.

4 BY MS. WILKINSON:

5 Q. It's for her Honor. You can turn to her, just speak up.

6 THE COURT: No, I got that. He said if he used 100
7 million, the damages would go way up.

8 A. Yeah, I had to find -- Dr. Pakes did not have to find a
9 principal way to answer the question that was said before about
10 he didn't take into account people in New York don't buy cars,
11 he didn't have to worry about that problem. I have to worry
12 about it because if I assume the market, the total market size
13 is, say, everybody who subscribes to MVPDs, all right, that was
14 the very first thing I thought of: Let's pretend it's 88
15 percent of all households. If you do that, the damages
16 estimate goes way up, and I think it's unrealistic.

17 So I tried to identify what fraction of the population
18 actually has an intense interest in baseball and hockey. He
19 did not attempt to identify the fraction of the population that
20 is likely to buy an automobile next year. And it's not a flaw;
21 it's just a difference. That's all.

22 Q. According to you, it's just a difference not a flaw, right?

23 A. His is not a flaw; mine is not a flaw. We are trying to
24 answer different problems -- different questions and we have
25 different problems.

F3jglau2

Noll - cross

1 Q. Dr. Noll, you said that it would be impractical -- it would
2 have been impractical for you to do a survey in this case,
3 right?

4 A. That's correct.

5 Q. Are you familiar with conjoining analysis?

6 A. Yes, I am.

7 Q. And when you do a conjoin analysis, you take a small survey
8 to start it, don't you? You don't need a big survey, do you?

9 A. Yes, you do if the question is complex. Conjoint reduces
10 the sample size, but it doesn't cause it to be small. It
11 depends on the nature of the problem.

12 Q. Conjoint analysis are done all the time by companies trying
13 to introduce new products to see what people will like and what
14 they will purchase, don't they?

15 A. Yes, they are, and the size of the sample depends on the
16 complexity of the problem.

17 Q. Some of those times, you have people who -- the product
18 doesn't exist, so you don't have anyone out there who has ever
19 purchased the product?

20 A. Of course. That's the --

21 Q. Right?

22 A. It is absolutely true that you can get information about
23 the introduction of new products by doing surveys and conjoint
24 surveys --

25 Q. You don't to have a sample --

F3jglau2

Noll - cross

1 THE COURT: Let him finish the answer.

2 A. Conjoint surveys -- conjoint analysis on a series of
3 partial and overlapping surveys is the main benefit of a
4 conjoint analysis and a survey that feeds into it is not that
5 it reduces the sample size; it reduces the length of the survey
6 for the individual so it comes down to a reasonable amount of
7 time.

8 I've actually done this, so I sort of know what I'm
9 talking about. And we did it in the case of DirecTV -- excuse
10 me -- of Satellite XM and Sirius XM tried to estimate how many
11 consumers they could have.

12 Q. The point is, you don't need to start with a set of people
13 who already made a purchase to survey people and then use that
14 as the basis for your conjoint analysis, which does this choice
15 prediction, right, by doing 10,000 draws or how many draws for
16 each person and it produces a huge number of predictions that
17 you use -- that someone can use to actually give some
18 predictions about what people will do if a new product is
19 introduced to the market, right?

20 A. The --

21 Q. Yes or no?

22 A. The answer is, in this context, you're mischaracterizing
23 how you do a conjoint analysis.

24 Q. I didn't ask you this context.

25 A. You're mischaracterizing, so I can't answer yes to the

F3jglau2

Noll - cross

1 invention of a technique that doesn't exist.

2 THE COURT: If he can't answer yes or no, then that's
3 his answer.

4 Q. I'm not asking you about in this particular context. I
5 said generally isn't that what is done: You take a survey
6 sample and you ask people about their preferences and it can be
7 a product that never existed, you put the information into a
8 conjoint analysis, it runs a very complicated mathematical
9 analysis predicting draws from one choice and trying to predict
10 what millions of people will do. And then you can get data to
11 suggest what people might do if that product was introduced.

12 Isn't that true?

13 A. That is absolutely true, and what I said earlier about it
14 would take a huge sample size is right.

15 Q. You did not say anything about that in any of your
16 declarations to give us any basis to say why it was too big.
17 You didn't give us any explanation in your reports, did you?

18 A. Yes, I did. There's the four -- remember Dr. McFadden
19 proposing 435 different categories of fans? Well, he dropped
20 that as soon as I said why that was silly and it's for this
21 very reason.

22 Q. You were talking about actual fans. I'm talking about
23 doing a survey of a relatively small group of people using
24 conjoint analysis.

25 THE COURT: I think he answered you as to the general

F3jglau2

Noll - cross

1 way of doing it. So you have gotten the answer for general.
2 He wants to distinguish the specific and the general. Okay.
3 Q. Let's take a look at the explanation I think you gave
4 yesterday and now today for why your model produces what we
5 were calling absurd results to see what one fan and two fan and
6 multi-team fans purchase under your model. Can we take a look
7 at slide one.

8 This is what Dr. Ordovery's analysis showed and you
9 don't dispute the math. You just explained why it happened,
10 right?

11 A. I don't dispute the math here; no.

12 Q. And let's look at what you said yesterday, which is you
13 said it was because --

14 THE COURT: I don't think he testified yesterday, did
15 he?

16 THE WITNESS: No.

17 MS. WILKINSON: I'm sorry, your Honor. Tuesday.

18 THE COURT: Okay.

19 MS. WILKINSON: Thank you.

20 Q. On March 17, Dr. Noll, you said that it was because you
21 knew that the multi-team people are most price sensitive,
22 right? Did you say that or not?

23 A. I didn't say I know. I was giving an explanation for the
24 nature of the fans in the data, yes. I was talking about the
25 model itself and the data and the estimated utility functions.

F3jglau2

Noll - cross

1 Q. You're not suggesting that the model actually knows or
2 shows you that multi-team fans are most price sensitive, are
3 you?

4 A. The model actually does show they are price sensitive, yes.
5 I mean -- whether it's true or not, I don't know that it's
6 true, but that's what the model says. The model has the result
7 that they are price sensitive.

8 Q. Well, this original data that we were talking about -- go
9 back, please, one slide -- wasn't trying to show whether they
10 were price sensitive; it was just trying to show what they
11 actually purchased if they become purchasers, right?

12 A. No, that's true, but Dr. McFadden yesterday criticize me --
13 my answer as saying that if they are more price sensitive, you
14 might expect this result. He then made the assertion that they
15 weren't because it holds, according to something else
16 Dr. Ordover did, and so that today I was talking about that.
17 But I was responding to the criticism by Dr. McFadden of my
18 claim that the multi-channel people are price sensitive.

19 THE COURT: And really the question that I'm hearing
20 in this cross-examination is how does this model determine that
21 they're more price sensitive than others? How does this model
22 do that?

23 THE WITNESS: You can see it in the -- how small
24 changes in price would affect the number of people who buy
25 things; that's how you do it. That's what it means to say

F3jglau2

Noll - cross

1 price sensitive. Hold the price of one thing constant and do
2 small variations on the other price.

3 THE COURT: I realize that, but how do we know this
4 subset of people, the multi-team fans, are more price sensitive
5 than the other two groups?

6 THE WITNESS: We don't know it in a fundamental sense
7 of we asked them all.

8 THE COURT: Right.

9 THE WITNESS: We know it because the model of their
10 demand behavior come -- kicks out that result, so it's a fact
11 of the model.

12 THE COURT: I know, and they're saying that's why the
13 model is flawed.

14 THE WITNESS: Yes, I know, I know. That's what I'm
15 saying. But to me, the finding here is I was explaining what
16 the cause of it is, and one of the causes of it is that they're
17 price sensitive. Then there's another cause that I also
18 explained.

19 Q. I think I just heard you tell her Honor that a small change
20 in price causes a big change, and that's how you know it's
21 price sensitive, right?

22 A. No, I didn't say -- I said that the way you determine the
23 extent of price sensitivity is you look at a small change in
24 price and what it does in terms of quantity, yes, that's the
25 method and when --

F3jglau2

Noll - cross

1 Q. Did you do that in this model?

2 A. Did I?

3 Q. Did you run the model that way?

4 A. No, I did not in my reports estimate price sensitivity of
5 any specific type of fan; no.

6 Q. So you don't have any data that our experts could look at
7 that you provided in the report that her Honor can turn to to
8 show that you ran a test of the model and actually can prove
9 that this group of purchasers are price sensitive, do you?

10 A. No, I used -- I used your data to show that they were price
11 sensitive, not mine. This came in just before the original
12 hearing date and so I didn't have time -- even if I had done
13 something, I couldn't have testified to it because it wasn't in
14 my report.

15 Q. Where is it?

16 A. No, I said even if I --

17 Q. Where is it? You said you ran the test recently.

18 THE COURT: No, he said he didn't.

19 A. No, that's not what I said.

20 Q. So, you don't know? Then how can you know from looking at
21 our -- you said you looked at our data?

22 A. Your people have run a version of the test that's not
23 right, but they have run one; and it shows price sensitivity
24 despite the fact that it's not right.

25 Q. Which one?

F3jglau2

Noll - cross

1 A. Ordover.

2 Q. Which one of Dr. Ordover's tests?

3 A. It's some tables in Ordover's report about assuming
4 differences in prices and seeing what happens.

5 And it shows his -- it's -- as I say, it's sort of
6 bogus because he assumes that the price of the standalone
7 channels equals the price of the bundle, but that table shows a
8 1/3 reduction in the number of multichannel viewers who
9 subscribe at all to anything if you change the price.

10 Q. So okay, let me get clear what you're saying. You're
11 saying that he ran a test you don't think is great but it's
12 good enough for you to say that the multi-team fans are price
13 sensitive, right?

14 A. Yes. The test he ran actually underestimates the extent of
15 price sensitivity, but still it shows that if you had that
16 price change, you'd have 1/3 of the people dropping out.

17 Q. So if we knew what to look for in this multi-fan 99 percent
18 to 1 percent, if we held the price constant, what do these
19 numbers change to?

20 A. I don't remember, but --

21 Q. Is it a big change?

22 A. Those are not the numbers I was testifying about. What I
23 was testifying about was the total number of people among the
24 multi-team fans who subscribe at all. So it's -- 99 and 1
25 percent are percentages of a number which is the number who

F3jglau2

Noll - cross

1 subscribe. And that number who subscribe, if you'd raise the
2 price of the standalone channels to the price of league bundle,
3 it falls by a third. Those are percentages of a base. And
4 it's misleading to look at percentages of the base without
5 taking into account that the base changed, and that's what
6 happened.

7 Q. You're talking about between who might purchase and who
8 actually does purchase. And you're saying here a bigger
9 percentage purchase and when you change the price, a smaller
10 percentage purchases?

11 A. Yes, 1/3 dropout.

12 Q. But once those drop out, then everybody should become a
13 bundle package price purchaser, the people who are left
14 purchase, even though it's a smaller number because they're no
15 longer price sensitive and they like multi-teams, they should
16 purchase the package, shouldn't they?

17 A. Well, you'd have to recalibrate the model to do that.
18 That's why I say the calculation Professor Ordober does isn't
19 right because the prices that you're testing are not -- this
20 gets into the issue of the shape of the demand curve outside of
21 the range of plausible data.

22 Q. So your model isn't calibrated properly to show this price
23 sensitivity, because if it did, it would show, even with a
24 smaller group, everyone -- it should show everyone in the
25 multi-team category becomes a package purchaser, right?

F3jglau2

Noll - cross

1 A. Wrong.

2 Q. Okay. Let's take a look at what it does show. Let's show
3 slide number three. This is what you're talking about. And
4 what Dr. Ordover found is when he used your price, not a price
5 that he produced, the price your model says the package will
6 cost in the but-for-world, right?

7 A. Yes.

8 Q. Is that the price --

9 A. He took the existing model and plugged in a set of
10 different prices assuming that the same model can be used to
11 test that.

12 Q. Dr. Noll, he took the bundle price you predict \$20.05,
13 that's your number in your but-for-world, is it not or is it?

14 A. He took the bundle price --

15 Q. Is it --

16 THE COURT: That's your package price?

17 THE WITNESS: Yes.

18 A. He took the bundle price that was predicted.

19 THE COURT: Hold on, folks. No more question right
20 now.

21 It's your package price?

22 THE WITNESS: He takes the equilibrium bundle price.

23 THE COURT: Yours?

24 THE WITNESS: Yes, out of my analysis.

25 Q. So he kept the bundle price exactly the same as your model

F3jglau2

Noll - cross

1 had it when it predicted what will happen in the but-for-world.

2 He did not change that, did he? Just a bundle price --

3 A. Yes, yes.

4 THE COURT: He just said that; he didn't change it.

5 A. How many times do I have to say yes?

6 Q. Enough so it's clear.

7 So then he took the standalones and he made those the
8 same price as your but-for-world package price to see whether
9 it was -- that was the problem, right, that it was people were
10 price sensitive? That's what he did, right?

11 A. That's what he did with respect to price, but it doesn't
12 answer the question are they price sensitive. So you can't --
13 I have to answer yes to the first and no to the second.

14 Q. And what he showed was your model still comes out where
15 almost everybody, even when you get rid of the people who no
16 longer want to purchase because of the price and you get rid of
17 the people who might be price sensitive, as you call it, still
18 almost every single multi-team fan purchases the standalone
19 under your model?

20 THE COURT: I have to understand your question. And
21 the standalone is the same price as the bundle in the question
22 you just asked?

23 MS. WILKINSON: Yes.

24 THE COURT: They're both \$20.05?

25 MS. WILKINSON: Yes, your Honor.

F3jglau2

Noll - cross

1 THE COURT: So despite the exact same price under his
2 model, Dr. Noll's model, you're saying they all flock to the
3 stand-alone.

4 MS. WILKINSON: The remaining purchasers, because it's
5 a smaller percentage --

6 THE COURT: They all flock to the stand-alone.

7 MS. WILKINSON: So that's us saying that we're not
8 that price sensitive; I really like my multiple teams.

9 THE COURT: Yes, and I still purchase the stand-alone.

10 Why would they do that? If the price is the same and
11 you already reduced the set of people, getting rid of the
12 people who are price sensitive, now you have this hypothetical
13 of the same price on the left side of this chart and the right
14 side of the chart, why would the multi-team fans rush to the
15 stand-alone at that point?

16 THE WITNESS: He's taking advantage of the functional
17 form of something I was talking about earlier. What you would
18 actually need to do if this was the test you wanted to run with
19 that big of a price change is recalibrate the model so it could
20 have these prices in it. That's why I said the right way to do
21 this is to look for small changes.

22 The model is going to be much more accurate at
23 producing small changes around the actual equilibrium prices
24 than it is to going to be predicting big changes that causes
25 the relative prices to differ from anything that could

F3jglau2

Noll - cross

1 plausibly exist.

2 THE COURT: What you're saying really is this
3 hypothesis makes no sense in your model.

4 THE WITNESS: Yeah. You wouldn't use the model as he
5 used it to ask the question --

6 THE COURT: -- if you're going to have the same price.

7 THE WITNESS: You'd do it a different way than he did
8 it. That's right.

9 Q. The same exact problems happens when you look at the NHL
10 data, doesn't it?

11 A. I don't think it's the problem the results are the same.
12 No to problem; yes to results.

13 Q. Same results. And Dr. McFadden, who is the modeling
14 expert, isn't he?

15 A. The?

16 Q. He's a modeling expert and you're not a discrete choice --

17 A. He's an expert about this -- about random coefficient logit
18 models, yes, he is the --

19 Q. That's what this is.

20 A. Yes, but it doesn't come -- the model, the results that are
21 not coming about speak for that reason. That's why it's weird
22 to ask the question the way you did.

23 Dr. McFadden is a great economist and he knows more
24 about conditional logit models than anybody else in the planet,
25 and this really has nothing to do with that.

F3jglau2

Noll - cross

1 Q. Well, it does, because he said what it really is, it's the
2 logit error itself; it has nothing to do with price
3 sensitivity. He says you used a model that you shouldn't have
4 used to ask this question, right?

5 A. Yes, he said that, but that conclusion is wrong. We have
6 the same explanation. That's why I said in my rebuttal that it
7 does -- one of the things, it's not the only thing, but one of
8 the things that drives is it a logit error when you get outside
9 the range of the plausible prices.

10 Q. Dr. Noll, you sat and answered questions to your counsel
11 and said it was price sensitivity. That's what you said all
12 during your direct. And what Dr. McFadden said yesterday,
13 let's take the quote at page five, Dr. McFadden said price
14 sensitivity absolutely cannot be the explanation, it's
15 logically impossible within Dr. Noll's model construction, and
16 he is the modeling expert, but he agrees with us that it also
17 has nothing to do -- you didn't go back and look at the real
18 world. It doesn't have any common sense. That's what he says.

19 A. Well, he's wrong, all right? The price sensitivity is
20 there and the logit error is there as I just testified to in
21 the direct examination.

22 Q. Let's take a look at what Dr. McFadden says about that. He
23 doesn't say it's about anything to do with price sensitivity.
24 He says it's a consequence of using the logit model in a
25 situation where it is quite inappropriate to use. He's the

F3jglau2

Noll - cross

1 modeling expert, not you, and he's saying it's inappropriate
2 because of this error for you to use the model that you did.

3 Isn't that what he said?

4 A. He said it and he's wrong.

5 Q. And he describes this red bus/blue bus problem, right?

6 A. Yes.

7 Q. And you don't disagree that that is a problem with your
8 model where it's --

9 A. The red bus/blue bus problem is not a problem of the model.
10 The problem of the model is, in fact, in certain circumstances,
11 the logit error is driving results or is affecting -- I
12 shouldn't say driving -- it is one of the factors producing
13 results. The right way to say it is the thing that introduces
14 heterogeneity in consumer behavior. And that's why I said in
15 my direct examination one of the ways to change the results
16 that is going to make this look better, if you cared about it
17 is, to make assumptions that reduce the effect of the logit
18 error. I just got through testifying to that.

19 Q. Logit error causes the problem because what you did is you
20 set the model as you either want the bundle or you want a
21 standalone. You either want the bus, right, or the car. And
22 then what you did is, you made the standalone for the two-team
23 RSN fans and the three team or more have another bus and
24 another bus and another bus.

25 Can I finish?

F3jglau2

Noll - cross

1 A. That's absolutely an incorrect characterization of what I
2 did.

3 Q. So when the choice is being made by the model, it's not a
4 real person, when the choice is being made by a model, they get
5 to choose either the bundle or 29 versions of the bus, 29
6 versions of the standalone. And just by random error, which is
7 what logit error is, you're more likely to pick the standalone
8 when each time you get 29 of the same and one only
9 differentiated product; that's what's happening, and this is a
10 commonly known error in this model, isn't it?

11 A. It's not an error for what I'm trying to do. That's the
12 point. It's not necessarily a problem.

13 Q. Dr. McFadden --

14 THE COURT: Let's go back to basics. What are you
15 trying to do?

16 THE WITNESS: What I'm trying to do is estimate the
17 price of the bundle.

18 THE COURT: The price of the bundle.

19 THE WITNESS: And what -- how the model behaves in
20 conditions when -- that you impose upon it that don't reflect
21 the conditions of the data itself, when you're pushing it into
22 territory that the more you push it away from what the
23 equilibrium of the model is and what the data tell you, the
24 more these functional form assumptions affect the result. And
25 that's why, yes, we know how to make that go away on this

F3jglau2

Noll - cross

1 particular result.

2 The way we make -- and, remember, I got this a week
3 before the original hearing date. The way you make it go away
4 is what I said before: You give people fewer choices. So you
5 use the same criteria I used to pick RS -- the one RSN guy and
6 the two RSN guy, I used that exact same approach to zero-out
7 some of the choices of the multiple RSN people. I do that.
8 And secondly, I increase the weight on baseball in general or
9 hockey in general.

10 If I do those two things, I can make this go away, and
11 what you're going to get if I do that is implausible results in
12 other dimensions because this is all attempting to correct for
13 something that doesn't really matter, all right?

14 THE COURT: And it doesn't, according to you, affect
15 the price in the bundle?

16 THE WITNESS: Yes -- well, no.

17 THE COURT: No?

18 THE WITNESS: If I do these corrections, the price of
19 the bundle is going to fall even more and damages are going to
20 be even higher to a level I find implausible.

21 Q. Dr. Noll, the idea of a logit model having this problem,
22 whether you call it an error, it's a known limitation of this
23 model, isn't it?

24 A. It is a known consequence of using it and it's true of all
25 logit models no matter what they are that if you push them to

F3jglau2

Noll - cross

1 the point of where the logit error is having a big affect on
2 estimating prices and quantities, then, in fact, for that
3 particular thing you're trying to predict, you get an
4 inefficient prediction, but you don't get an inefficient
5 prediction for everything you try to use the model for.

6 Q. Isn't your whole model supposed to be predicting if you
7 have standalones and the package what will be their prices
8 because you'll have competition, people choosing either a
9 standalone or another standalone or a package, right?

10 A. Yes, and the degree of competition is at issue here. And
11 the way I would propose to fix the model to cause it to go away
12 would intensify the competition, not reduce it.

13 Q. So before you ever used this logit model, you knew that it
14 had this limitation, didn't you?

15 A. I knew this was an issue of logit and -- of course. And so
16 I don't want this to happen around the equilibrium bundle price
17 for the bundle; I don't want the logit error to be driving it.
18 And one of the reasons it made sense to go to the one RSN and
19 two RSN case, what I also got criticized for, one of the
20 reasons to do that is it reduced the sensitivity of the bundle
21 price to the logit error.

22 Q. And you never disclosed in any of your reports to anyone
23 that this would cause this result, that it had this limitation
24 and it could affect the price of the bundle and the standalone
25 that you're predicting?

F3jglau2

Noll - cross

1 A. Well, I discussed logit errors and I discussed why two --
2 why the multiple RSN model gets a better result. I don't have
3 a discussion in my report about logit error because everybody
4 knows it. This is like having a discussion about why do we
5 assume demand curves are negatively sloped? Everybody who uses
6 logit models knows this. So I didn't understand -- I didn't
7 give a primer on the nature of logit demand models in my report
8 because you can buy one in any textbook.

9 Q. Your entire model is premised on profit maximizing
10 decisions, right, that people will profit-maximize the teams
11 and the league independently, right?

12 A. That's correct.

13 Q. So you don't account for any altruism or kind of the best
14 decision for the league. In your model, the league is a direct
15 competitor with every RSN, right, or every team?

16 A. Yes. The place where the altruism or something else
17 besides straight profit maximization occurs is in the making of
18 the league rules, not in the behavior of the MLB.TV once they
19 get into the TV/internet business.

20 Q. So nothing in your model takes into account anything other
21 than the economics of if I'm looking out for my interests as a
22 team and the league, as the competitor, is looking out for
23 their interests, what will be the prices with competition
24 introduced, correct?

25 A. I think so. That didn't completely make sense to me, but I

F3jglau2

Noll - cross

1 think that's right. Yeah.

2 Q. And when you looked at your model, you said adding the
3 package when the standalones are now out in the marketplace was
4 additive to the industry-wide profits, right?

5 A. That's correct.

6 Q. You did not say whether each team would be more profitable
7 by itself, right, with the package or not?

8 A. No. I did not say whether each team would be more
9 profitable of the package, no.

10 Q. And you also never calculated whether if each team charged
11 a fee on its own independently and the bundle price went up and
12 they got the 1/30th, that they can make even more money than
13 the numbers you showed in your report, correct?

14 A. I didn't understand the question.

15 Q. All right. Your model shows the teams put their
16 standalones out, they give their feed away for free, the league
17 on its own sells the bundle and then the league gives back
18 1/30th to each team, right; isn't that where your prices come
19 from, your profit analysis of whether it's additive to keep the
20 package around?

21 A. The issue of the profitability of the league bundle is
22 assume the territorial rights are lifted and everybody --

23 Q. That's what I said, the standalones are out in the market.

24 A. They're already there, and then you ask the question if we,
25 to that, add the league bundle, is it profitable to add that?

F3jglau2

Noll - cross

1 Yes.

2 Q. Is it profitable?

3 You never looked to see if it was more profitable to
4 keep the bundle and let each team charge its own per-subscriber
5 fee to the league, did you?

6 A. No, of course not because that's implausible. Yeah, that's
7 why I didn't do it. I explained why I didn't do it.

8 Q. You could have modeled that, couldn't you?

9 A. You can model anything. I don't disagree with --

10 Q. And if you were just looking at profit maximizing, that
11 would have been more profit maximizing than what you produced
12 if it turned out everybody did better on their own, wouldn't
13 it?

14 A. It's more profit maximizing to coordinate your pricing than
15 to price independently.

16 Q. And you can't tell the Court that you have given the
17 analysis that shows that each team with the bundle charging a
18 subscriber fee, which would raise the price of the bundle, and
19 getting the 1/30th, would make even more money than the numbers
20 you produced? You can't tell her that that's not true, can
21 you?

22 A. I -- I didn't disagree with the results that Professor
23 Pakes and Professor Ordoover got; instead, I explained why they
24 got them and what it means in terms of the modeling
25 assumptions.

F3jglau2

Noll - cross

1 Q. So there's no modeling assumptions. The only difference is
2 you assumed that the league would continue to require they are
3 now a competitor with the teams?

4 A. They already are.

5 Q. No. You assumed -- they're joint venture now. You assumed
6 they would not act like a joint venture in the but-for-world
7 you told your Honor that a few minutes ago, and you assumed
8 that they would still require a zero feed even though everyone
9 would make less money; they could keep the bundle in place
10 under Dr. Ordoover's analysis, they could all have the
11 standalones, everyone would still get the bundle, they would
12 get their 1/30th, and they would all make more money. And you
13 can't say that that won't happen in the but-for-world?

14 A. I could say that what -- if you think the but-for-world
15 would operate as Dr. Ordoover and Professor Pakes said, then
16 indeed what they said might lead to more profits, but,
17 remember, neither of one of them calculated an equilibrium.

18 Q. Dr. Noll, you didn't do any of the --

19 A. They didn't calculate an equilibrium. They didn't
20 calculate the equilibrium. I can't answer the question what
21 would happen to profits because all they did is look at a
22 deviation.

23 Q. We're asking you, Dr. Noll, you didn't do that? You didn't
24 do any of that analysis, did you?

25 A. No, because I don't believe it's valid.

F3jglau2

Noll - cross

1 THE COURT: I want to hear the end of that sentence.

2 No because what?

3 THE WITNESS: It's not valid. It requires
4 coordination of prices among horizontal competitors, so I
5 didn't model collusion.

6 Q. No, no, no. Dr. Ordover -- you tried to confuse the Court
7 with this all along. Dr. Ordover, did two analyses: He did
8 Section IV and Section VI.

9 MR. DUBNER: Objection to that characterization, your
10 Honor.

11 THE COURT: Well, I am confused, so go ahead.

12 MS. WILKINSON: It's not your fault, your Honor.

13 Q. Dr. Ordover did a Section IV analysis where there wasn't
14 any coordination or joint venture activity and a Section VI,
15 didn't he?

16 A. There's coordination in both; they're just a different
17 amount.

18 Q. In Section IV, there is no coordination --

19 THE COURT: Apparently, you disagree on that.

20 Q. You think there was coordination in Section IV?

21 A. Yes.

22 Q. Where is there coordination?

23 A. It's the mechanism for analyzing the problem. It's one
24 cent, one cent, one cent independently.

25 Q. It's independent.

F3jglau2

Noll - cross

1 A. Yes, but there's dependence. When you raise it by one
2 cent, the league is sacrificing profits to give it to the team.
3 And you bargain -- a bargaining model does not predict that if
4 you have the current division of profits between two entities
5 that you could increase the fraction given to one and he makes
6 more money at the expense of another, that's not a new
7 plausible equilibrium. Equilibria have to be found by things
8 that increase the welfare of both sides. And the only way he
9 can get that result is by assuming that in each bilateral
10 bargain the league takes into account the profitability of the
11 standalone fee.

12 Q. No, no, no, Dr. Noll. Don't try and mislead the Court.

13 MR. DUBNER: Objection, your Honor.

14 THE COURT: Sustained, sustained.

15 MS. WILKINSON: I'm sorry, your Honor.

16 THE COURT: Although he's disagreeing with you, he's
17 not necessarily trying to mislead me.

18 BY MS. WILKINSON:

19 Q. Let's start with what Dr. Ordover did. If you assume every
20 team independently negotiates and decides on its own to charge
21 17 cents, they could do that, right, to the league? That could
22 theoretically happen, couldn't it?

23 A. No, it couldn't theoretically happen that they would all
24 get the same fee. We know that in every line of business they
25 do independently, they get different amounts in revenue.

F3jglau2

Noll - cross

1 There's no reason to believe that 17 cents apiece across every
2 team in the league could be attained in anything other than
3 collusion. That's the only way you could ever get there.

4 Q. Let's assume that everyone gets one cent different?

5 A. Everybody gets one cent can only happen if there's
6 collusion. It wouldn't be the case that's in any sense
7 equilibrium of a bargain.

8 Q. Dr. Noll, start with one team because it's easy. If the
9 Yankees are bargaining with the league, they can come up with a
10 price for the fee, right, for their fee?

11 A. They could.

12 Q. And then the Mets could go in the room the next day and
13 they could bargain for their fee, right?

14 A. They could.

15 Q. Let's assume one charges 17 cents and one charges 18 cents,
16 okay?

17 A. Okay.

18 Q. And then the league has to pay that so they raise the price
19 of the package, right, and then at the end, they take all the
20 package profits and they distribute it evenly, right?

21 A. That's correct.

22 Q. If everybody makes more money there --

23 A. Not everybody does; the league makes less. The league
24 bundle makes less and the individual teams make more.

25 Q. No, no, no.

F3jglau2

Noll - cross

1 A. Yes, yes, yes.

2 Q. Dr. Ordoover's analysis showed everybody made more money.

3 THE COURT: Including the league?

4 A. No, it did not show that.

5 MS. WILKINSON: The league is just the 1/30th, your
6 Honor. That's all the teams care about.

7 Q. They care about, right, their 1/30th, but they all get
8 their subscriber fee, right.

9 A. I think you have exactly characterized the difference
10 between us; that you think it's perfectly fine for a standalone
11 joint venture to act in a way that attempts to maximize the
12 horizontal competitors' joint profits. That's fine. I don't
13 think that's a legitimate way to model it; your experts do.

14 Q. Are you saying it's unlawful?

15 A. I don't know whether it's unlawful. I'm simply saying I
16 believe that it's illegitimate as a economist to have
17 cooperative price-setting among horizontal competitors as the
18 way you try to figure out damages in an antitrust case. I
19 think that's not cricket.

20 Q. So when you heard Dr. Pakes say the way to account for that
21 is each team goes into the room, as I was just saying, and then
22 the league hires a consultant and decides on its own how to
23 price, that's totally legitimate? That happens in the real
24 world all the time?

25 A. The assumption I'm making is the league makes independent

F3jglau2

Noll - cross

1 pricing decisions from both inputs and outputs from the
2 individual teams; yes.

3 Q. So that wouldn't be collusive.

4 A. Well, that's what your guy who runs MLB.tv says happens.
5 That's why we have revenue-sharing that causes teams to want to
6 deviate. We have a whole bunch of institutions in place that
7 are more consistent with my view than your view.

8 THE COURT: Time really is about up.

9 MS. WILKINSON: Can I ask one more area because it
10 agrees to this?

11 THE COURT: Sure.

12 Q. Your saying our view is different than the real world. The
13 YES Network that shows the Yankees is available out-of-market
14 today, isn't it?

15 A. Yes.

16 Q. And it is on a tier, right, a sports tier?

17 A. Yes.

18 Q. And it charges the MVPDs a per-subscriber price, doesn't
19 it?

20 A. Yes, it does.

21 Q. And so, that is above their marginal cost?

22 THE COURT: Who is "their"?

23 Q. The MVPDs, that's a mark-up, right?

24 A. I don't -- there's too many pronouns.

25 THE COURT: Yes, I agree.

F3jglau2

Noll - cross

1 A. The MVPD has a price it pays to the Yankees for YES Network
2 that enters into their, what, the marginal cost of the
3 subscriber?

4 Q. Yes. Let's start down the chain. The Yankees charge a
5 per-subscriber fee to the MVPDs and that is above their
6 marginal cost, right?

7 A. Above the Yankees' marginal cost, yes. The marginal cost
8 for distributing it is basically zero.

9 Q. That's a profit for them, that's a mark-up?

10 A. A little tiny profit.

11 Q. A little mark-up?

12 A. A little tiny one.

13 Q. And then, when the RSN goes to the MVPD, right, and the
14 MVPD then turns to sell it to the customer, they have a
15 mark-up, don't they?

16 A. Yes. They all do have mark-ups; yes.

17 Q. So we know what goes on in the real world today in the
18 out-of-market. We know there's a subscriber fee. And you've
19 told us I think throughout this hearing that there's no way in
20 the but-for-world that that pricing would occur in the
21 but-for-world, right?

22 A. No. I said it won't occur in the but-for-world when
23 there's double marginalization.

24 Q. That is double marginalization that I just described.

25 A. No, it's not. No, it's not.

F3jglau2

Noll - cross

1 THE COURT: Okay. Why is it not?

2 THE WITNESS: Double marginalization is monopoly
3 profits. The YES Network doesn't have monopoly power in
4 markets where it doesn't broadcast Yankees games. It's just
5 one of the many 500 channels on television and they don't have
6 market power. If they had Yankees games, then they would have
7 market power, but they don't.

8 Q. When -- in your but-for-world, those games are actually
9 just blacked out out-of-market right now, right?

10 A. They're blacked out. And, moreover, the subscriber fee the
11 YES Network charges is not a cost on the quantity of YES; it's
12 a cost on the quantity of the cable system, so it's not a price
13 that is the incremental revenue from just the YES Network.
14 It's the whole network, the whole incremental network in the
15 tier -- the revenue of the tier.

16 Q. Dr. Noll, in your but-for-world, all YES has to do is turn
17 on the game because it's already available on its --

18 A. Virtually zero marginal cost, yes.

19 Q. And they're going to still charge a per-subscriber fee?

20 A. Yes, and I'm not allowed to say what the fee is but it's
21 tiny.

22 Q. But it's still positive for each?

23 A. It's still positive; yes.

24 Q. It doesn't matter. They get -- and you think they're going
25 to charge more than that once they actually provide the games,

F3jglau2

Noll - cross

1 don't you?

2 A. A lot more. That's why double marginalization becomes
3 important. Right now it's not.

4 Q. Right. And you said -- and these are the last two
5 questions to clarify what you said I think in the last two
6 days -- you said that when the restrictions are lifted, all
7 those blackouts, right, will be gone, which means the YES
8 broadcast will be on the standalone in Tampa when it's playing
9 Tampa, right?

10 A. Well, I said the nature of the model is that.

11 Q. I'm asking you then.

12 A. You could change the model easily.

13 THE COURT: I understand. With the blackouts gone and
14 they're in Tampa, the game of the Yankees, the YES Network will
15 show the game?

16 THE WITNESS: Except for in-market. Inside the New
17 York -- except for New York, inside New York.

18 THE COURT: We're not talking in-market. We're
19 talking out-of-market.

20 THE WITNESS: It would be blacked out inside New York
21 in the bundle.

22 THE COURT: I know. We're not talking about
23 in-market. We're talking out-of-market in Tampa.

24 THE WITNESS: Yes.

25 Q. And they would show on their standalone -- so they would

F3jglau2

Noll - cross

1 only have -- they would be able to show their game against
2 Tampa in Tampa?

3 THE COURT: In Tampa, yes.

4 A. That's what the model assumes, although you could easily
5 change it.

6 Q. And on the same package that's available, the YES feed
7 would also be available, right, to show that Tampa/Yankees
8 game?

9 A. Yes.

10 THE COURT: In the bundle.

11 Q. So there's no content or game exclusivity either on the
12 package or in the standalone in your but-for-world because you
13 can see the game from the visiting feed either on the package
14 or in-market standalone -- out-of-market standalone, right?

15 A. Yes, that's correct; that's the way the model is now.

16 MS. WILKINSON: That's all I have, your Honor.

17 THE COURT: Seven minutes, please.

18 REDIRECT EXAMINATION

19 BY MR. DUBNER:

20 Q. First, Dr. Noll, the last thing Ms. Wilkinson was talking
21 about was that YES has a subscriber fee.

22 How does tiering affect her contention that that
23 supports the defendants' claim?

24 A. If you pay X cents per member of a tier, that's not the
25 same as X cents per subscriber to that channel. So the -- by

F3jglau2

Noll - redirect

1 broadening the base of the fee received, you reduce the double
2 marginalization effect. That's why in bundles, in bundled
3 cable offerings, whether it's extended basic or an expanded
4 sports tier that has 15 or 20 channels on it, a per-subscriber
5 fee for the entire bundle is much less double marginalization
6 than if you just charged a per-subscriber fee for the
7 incremental subscribers that were due to that channel.

8 In the case of the Yankees network, if you look at how
9 many people subscribe to the cable television system and among
10 those, how many subscribe to sports tier, they're getting paid
11 for a whole lot of people who didn't subscribe because of their
12 network, and that's operates like a fixed fee, that there's a
13 charge to DirecTV for all the people in the sports tier who
14 didn't subscribe to the sports tier because the Yankees were
15 there. Plus, then they get that incremental really small fee,
16 also at times the additional subscribers that came into
17 existence because they were there.

18 Q. And if all of the out-of-market RSNs in the but-for-world
19 had a fee structure of this sort, would that lead to the kind
20 of results that Dr. Pakes finds?

21 A. No.

22 Q. Now, all of Ms. Wilkinson's questions about the Yankees and
23 Mets bargaining were premised on the league deciding to pay
24 teams to get their telecasts, is that right?

25 A. Yes.

F3jglau2

Noll - redirect

1 Q. Are you aware of any example of a league paying teams for
2 IP occurring in any sport?

3 A. Only in the sense that it's already done, which is, they
4 don't pay them a rights fee. They pay them a revenue share
5 or -- excuse me -- a profit share, that it is the case that
6 leagues pay -- it's so silly to say they get it for free
7 because they don't. They get a profit share.

8 What they don't get is a fee that would interfere with
9 the pricing and make the pricing inefficient. That's what they
10 don't get.

11 Q. Ms. Wilkinson also said that there were no modeling
12 assumptions in Dr. Ordovery's and Dr. Pakes' experiments; is
13 that correct?

14 A. No. There are modeling assumptions.

15 Q. Let's go back to the price sensitivity issue briefly.

16 A. Yes.

17 Q. How would you test whether the results that they put up on
18 the screen are actually a mis-prediction or that your
19 interpretation is right?

20 A. What you would do is, you'd just get more data and you'd do
21 the things I said about. The first thing is, you'd get more
22 data so that instead of normalizing this one coefficient in the
23 model, which is the same thing that Crawford and Yurukoglu
24 normalized, instead of normalizing it, you'd estimate it. And
25 then secondly, you'd make some changes in -- that are like the

F3jglau2

Noll - redirect

1 one RSN and two RSN cases. You'd eliminate from the choice set
2 some of the channels for the multichannel viewers. And you
3 would get more information on price, which is the single-most
4 important thing you'd do, so you'd get variation in price that
5 would enable you to calibrate better price sensitivity. Those
6 are the three things you would do.

7 Q. And what statistical objective measures would you look at
8 to determine which was the better version?

9 A. Exactly what I used, which is your ability to predict the
10 moments; that is to say it's -- the measures that you would use
11 to say is this a good equation would still be did it predict
12 the moments, did it have a high explanatory power, does it have
13 a low standard error of estimate for the thing you're trying to
14 estimate, which is the price of the bundle. It's still the
15 same set of criteria you would use to say is this model
16 reliable.

17 Q. And one final thing, very quickly, the first thing that was
18 brought up on cross was BLP 2004. Do you claim you did the
19 same thing as they did in that paper?

20 A. No, not at all. I think it's a good paper. I was being
21 positive about it, not negative.

22 (Continued on next page)

23

24

25

F3J7LAU3

Noll - redirect

1 Q. And why didn't you use census data here?

2 A. Because we are not at the stage where we can actually use
3 it and employ it effectively. We need more variation to do
4 this. That is a useful and wonderful idea as soon as we get
5 more data.

6 THE COURT: But why didn't you do a survey with small
7 numbers?

8 THE WITNESS: Because a small number can't answer the
9 question we're after. The dimensionality of the problem is too
10 great.

11 Just think about how you would do the survey. Now if
12 you did it like Professor Pakes did in his most recent paper
13 what you would do is you would do a survey of say DirectTV
14 subscribers or MLB Internet subscribers, and you would ask them
15 hypothetical questions about what they might do. But that
16 still isn't going to answer the criticism I got, which is but
17 there is this huge number of people out there who are not in
18 the market, and almost all the action in your model comes from
19 adding more people. If you think about what happens when you
20 reduce price, you get a whole bunch of other people coming into
21 the market, and that's exactly what we predict, is that there
22 is price sensitivity, so, if, A, the single channels are
23 available cheap, and, B, the bundle price goes down, the number
24 of people who subscribe goes way up. And there is no way on a
25 survey on DirectTV people you get any more information about

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Noll - redirect

1 these other people than we already have. What you instead have
2 to do is a survey that gets those more people if you want to
3 answer that criticism.

4 THE COURT: You could do surveys of nonsubscribers,
5 people who aren't already subscribing.

6 THE WITNESS: But the numbers of parameters we have to
7 estimate is 66, and we have all of these buckets, people who
8 want the Yankees, people who want the Dodgers, people who want
9 the Cubs, and all those people, adding them all together
10 currently, half of one percent of all the households subscribe.
11 So just to find one subscriber we have to interview 200 people.
12 All right?

13 And unless you have a significant number of
14 subscribers in the sample, you don't know how to link -- you
15 don't have enough data to link the existing subscribers to the
16 nonsubscribers. So your sample size is driven by the necessity
17 to have enough subscribers in the sample that you can estimate
18 66 parameters.

19 Q. And the only other question I was going to ask was why a
20 conjoint analysis wouldn't solve this problem.

21 I don't know if your Honor thinks that's clear
22 already.

23 THE COURT: Go ahead. I think that's what I was
24 trying to ask, but go ahead.

25 Q. So why wouldn't conjoint analysis work?

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Noll - redirect

1 A. Here is what conjoint analysis does. You have 20 different
2 things that people might buy, and if you try to design a
3 survey, if I try to find out which of all of these 20 you might
4 want, the survey takes forever and people lose interest. The
5 survey research says if you try to take more than ten or 15
6 minutes with a single subject, you are going to get nonsense
7 answers. So, what you do is you give people a very restricted
8 choice, you give them a choice between two or three things, and
9 then you vary what they can choose among consumers, and take
10 other information so you can expand the prediction of what they
11 would do if they faced all 20 from a series of surveys of what
12 they would do if they could only do three or four. And that's
13 what conjoint analysis does.

14 MR. DUBNER: Thank you.

15 THE COURT: All right. Thank you, Dr. Noll.

16 THE WITNESS: On the dot.

17 THE COURT: So, we have finished the evidentiary or
18 live evidentiary portion of this hearing. I think the closing
19 arguments will be helpful to the court, and we agreed that we
20 would start at 1:30, and the time would be split one hour for
21 plaintiffs and one for defendants. What we didn't discuss was
22 the order of those summations and which makes sense and why.

23 Usually I hear last from the person who has the burden
24 of proof on the issue. So this is interesting because the
25 burden of proof on the Daubert challenge is probably on the

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Noll - redirect

1 defense, right? Or wrong? And the burden of proof on class
2 cert is on the plaintiff.

3 MR. DUBNER: I would actually love the burden of proof
4 on a Daubert challenge to be on defendants, but it is actually
5 --

6 THE COURT: They're both with you. So, you should go
7 last if they're both with you. The defense would sum up first
8 for an hour, and then you would. OK. All right. Good. See
9 you at 1:30.

10 (Luncheon recess)

11 (Continued on next page)

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AFTERNOON SESSION

1:30 p.m.

THE COURT: Please be seated. Mr. Keyte, are you going to do the whole hour?

MR. KEYTE: No, I'm just going to do the Daubert for about a half hour, and then Mr. Burke will address the class issues.

THE COURT: Good, all right.

MR. KEYTE: First, your Honor, I'd just like to thank you and the clerks for your patience. This has been very dense material, very complex, and we know it's very hard to follow.

THE COURT: We only hope you can tell how hard we have been working.

MR. KEYTE: And we keep very much in mind for this motion that your Honor has highlighted several times that the issues are solely about methodology and fit.

THE COURT: Yes.

MR. KEYTE: It's not who is right or wrong or how they apply something and what's the output, but it's methodology and fit. But it goes to specific fields in question, which is structural modeling discussed by Dr. Pakes, and this demand estimation with logit and GMM, which is Dr. McFadden.

Now, I want to be clear we are not saying that Dr. Noll is not a highly qualified industrial organization economist, but at the same time this is not about the field of

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1 sports or sports broadcasting. That's just the backdrop for
2 these two other econometric fields.

3 So with all that came in, I'm really going to focus on
4 the highlights. And I first wanted to just very briefly go
5 over the principles of modeling, which is slide one, for these
6 two fields. Now, there was some kind of back-and-forth around
7 the edges of these, but these are the basic principles of
8 modeling: It must capture the relevant and important
9 characteristics of the industry; the actual world must be
10 consistent with the observed data; a model must be in
11 equilibrium. I will address the falsifiability tests that Dr.
12 McFadden focused on. And it must not produce absurd results.
13 There is a debate on what is absurd and what's not, but we
14 certainly had some counterintuitive results that became part of
15 the topic.

16 I would like to start just to simplify in blocks --
17 let's start on the supply side with Dr. Pakes. He laid out in
18 great details what he believed were the significant
19 methodological flaws in Dr. Noll's model. I would first like
20 to look back at an exhibit he used, which is kind of what C&Y
21 did looking at this supply chain, and then he compared that to
22 what Dr. Noll's model does in that same supply chain. And what
23 we really see -- and probably the most striking thing that Dr.
24 Pakes testified about -- is that the MVPDs are completely out
25 of the entire market structure in this structural model on the

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1 supply side. He leaves them completely out.

2 Now, at first in the history of this kind of expert
3 debate, Dr. Noll said this was because of Internet competition.
4 That was in his first and second report, that that is removing
5 any kind of bargaining leverage that an MVPD has. Now, we know
6 that's not really the case in the real world, but most
7 importantly in terms of methodology he offers no economic
8 evidence, no quantitative analysis, cross elasticity or any
9 other study, that says that the Internet is taking away
10 bargaining leverage from the MVPDs. It probably is close to a
11 classic example of an ipse dixit assertion when it comes to
12 methodology.

13 Now, he next later really argued that the RSNs and
14 MVPDs would want to avoid double marginalization and strike
15 completely different deals than they have now. Now, the
16 interesting thing in Dr. Noll's rebuttal testimony, when he was
17 talking about the league's rules, he said that you have to
18 start with the contract. He was talking about the league
19 rules, and he said you can't ignore the existing contract forms
20 they use. Well, let's take that same point and apply that to
21 the RSNs and MVPDs. You can't ignore -- we agree you can't
22 ignore the existing contract forms they use. But this is
23 precisely what he proposes to do. And as Dr. Pakes explained,
24 this would require a very significant amount of bargaining
25 between the RSNs and the MVPDs, and that when you are changing

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1 the structure of the industry in this fundamental way, you must
2 model that. That is what structural modeling is about.

3 So that is the state of play: They are on a pay
4 per-subscriber basis, and you must model that shift that he
5 suggests to something else. Our experts say it won't shift.
6 But the methodological point, your Honor, is that you have to
7 model that. And that's Dr. Pakes' expert opinion.

8 That is not the only bargain that was not modeled. We
9 know in C&Y it's an academic paper, they might focus on one
10 thing. This is real life, and we are talking about a supply
11 chain where Dr. Noll admitted everything would be rebargained
12 at every level, and he just assumes that it will work itself
13 out because there is money to be made. But the fact is he
14 didn't model any of that. And, in particular, he didn't model
15 what the profit maximizing options would be among any party for
16 any of these bargains. He didn't model what their leverage is
17 or is not in any of these particular bargains that necessarily
18 would have to occur. And, as a matter of methodology -- and we
19 will get to -- his model just doesn't fit the industry in the
20 "but for" world that he is addressing.

21 Another aspect of what he did not model that is really
22 undisputed is that there would be multi-product pricing --
23 there has been, and it's been modeled for 20 years he said, Dr.
24 Pakes said -- and that there will be multi-product pricing in
25 the "but for" world. And Dr. Noll in his deposition made this

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1 very clear himself when he was talking about RSNs. And he is
2 talking about RSNs in this instance being the person that will
3 have control; it's their product that they offer to the MVPDs
4 and directly over the Internet.

5 Now, the interesting thing that Dr. Noll said in
6 rebuttal is, well, this is all wrapped up in collusion. Well,
7 of course not. An RSN cannot collude with itself.

8 THE COURT: He wasn't talking about the RSN at that
9 point; he was talking about the MVPDs for sure. There is no
10 doubt in my mind that's what he was talking about at that
11 moment.

12 MR. KEYTE: OK. And even with respect to the MVPDs,
13 again they have multiple products that they own and control.

14 THE COURT: Right.

15 MR. KEYTE: The point is collusion is no answer where
16 you are talking about somebody -- in this case the RSN or in
17 the MVPD -- where it's their product and they're just
18 controlling, they are distributing their product one place or
19 another, and it's a multi-product pricing situation.

20 Again, from a methodological standpoint -- because
21 remember Dr. Noll said I don't really dispute the economics of
22 this -- from a methodological standpoint you have to address
23 it, you have to model it, and he doesn't.

24 Another thing he did not model is the leagues as joint
25 ventures. The premise of his Bertrand model by design, by

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1 definition, is that they're completely independent. It is part
2 of the Bertrand model that they're not connected in any way.
3 So, it's not a joint venture model, it's just the opposite,
4 Bertrand is where they are not connected in any way. And he
5 understood in his deposition that you certainly would agree
6 that these are not independent competitors -- in other words,
7 they are a joint venture -- which is what your model assumes.
8 And so he is not modeling a joint venture even though he knows
9 it's a joint venture. Under his model he treats them as
10 independent competitors when they are not.

11 Now, again his response --

12 THE COURT: Well, are you sure of that? Because I
13 thought he distinguished between the stand-alones and the
14 bundle. With respect to the bundle he understood they were not
15 competing, they were all going to agree to the revenue sharing
16 split. With respect to stand-alones that was a different
17 issue. And with respect to competition between stand-alones
18 and bundles, the RSN and the teams knew what they were going to
19 get out of the bundle.

20 MR. KEYTE: Yes it's kind of stepping back to a
21 broader structure of the industry structure. They still do
22 after -- in the "but for" world they are still part of a joint
23 venture. They have a relationship within a joint venture
24 context.

25 THE COURT: But yes and no. Even now -- even now the

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1 Yankees are part of the league and therefore the bundle, but
2 they also sell the YES Network.

3 MR. KEYTE: Yes. And that is part of --

4 THE COURT: That's a joint venture, the YES Network?

5 MR. KEYTE: No, the participation in the package is
6 part of the joint venture relationship. That's the simple
7 point. The Bertrand model does not accommodate that because it
8 doesn't take into account the economic interdependence. That's
9 the simple point. And Dr. Pakes addressed that point.

10 Again, Dr. Noll's response to why, he didn't disagree
11 with what was addressed by the other experts on the incentives
12 when you have that joint venture relationship, but his response
13 was, well, that would be collusion so I'm not going to address
14 it. And I kept hearing that, and I kept thinking of cases that
15 said, well, you are an economist, your job is not to suggest
16 what the legal situation is, what the "but for" world would be
17 for some future case; it's just to do the economics. And so I
18 think the --

19 THE COURT: And you fault him for not assuming a
20 collusive practice that he knows or believes is illegal. I
21 mean he wasn't going to make that assumption if he believed you
22 can't collude on price setting.

23 MR. KEYTE: No, I only fault him for not sticking in a
24 sense to the economic incentives and what they turn out to be.
25 It's for others to argue whether that --

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1 THE COURT: He said he refused to make an assumption
2 that he believed could not happen in any world.

3 MR. KEYTE: And that's fine. And then he has to also
4 agree that he did not model the joint venture context of the
5 "but for" world.

6 Now, with respect to Dr. McFadden -- let's move to the
7 demand side -- he covered a lot of flaws -- they're very
8 sophisticated -- and he concluded in his words that the model
9 at the end of the day is junk science. And I know that's used
10 --

11 THE COURT: Who conceded that?

12 MR. KEYTE: No, he said that.

13 THE COURT: Who?

14 MR. KEYTE: Dr. McFadden. And, you know, that is
15 words that are out there in economics; it's not a personal
16 attack. But it is just what he thought of the model. And he
17 starts really by trying to describe to the court what Dr. Noll
18 is doing to build up in a sense this synthetic consumer, an
19 avatar, which for four percent you know something about them
20 because they participate in the package, and 96 percent you
21 don't know anything about them.

22 Now, one thing, the four percent you also don't know

23 --

24 THE COURT: Well, he knew something about them, I
25 thought.

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1 MR. KEYTE: That they bought their package.

2 THE COURT: No, not the 96 percent.

3 MR. KEYTE: The four percent.

4 THE COURT: No, but the 96 percent you know something
5 about them too.

6 MR. KEYTE: Well, you know they watched the World
7 Series --

8 THE COURT: -- and didn't buy the package. Correct.
9 So, you know two things about them.

10 MR. KEYTE: Exactly, your Honor.

11 With respect to the four percent, one thing you don't
12 know -- which is important -- you don't know the price
13 sensitivity of that four percent. He said he didn't have any
14 information on that. And C&Y, for example, did. And he pretty
15 much, other than those two things, said he really didn't know
16 anything about the 96 percent. So, the question becomes as a
17 matter of methodology how do you fill that gap.

18 Now, Dr. McFadden testified that in his expert
19 experience over the years, as you would do in marketing, you
20 fill it with very specific surveys, not some general surveys.
21 You get down to what do you like and why; if I change this,
22 what would you do; very specific surveys designed to get to the
23 question of how would consumers behave in response to prices or
24 other attributes of the product being sold.

25 Now, Dr. Noll said this is too hard, it would take too

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1 much time. Well, Dr. McFadden said we do this all the time; it
2 is the methodology in discrete choice modeling when you don't
3 have this information. And that happens all of the time.

4 And to some extent here -- because you are already
5 focused on Major League Baseball and hockey fans -- you know,
6 it is a narrow group to start, and you can obviously use many
7 survey techniques, but the key point methodologically is he
8 didn't try, he didn't do it, and Dr. McFadden says it's
9 standard in the industry.

10 So, what happens? What do you fill that void with?
11 Well, you fill it with some DNA which is very sparse. Dr. Noll
12 talked about in his many equations, first it was 62 moment
13 conditions, which is really only two per team, and the rest is
14 filled essentially with math, you know, what happens when the
15 model runs in math.

16 So, the second model -- before we got to the third
17 with the three groups -- the second model was tested for
18 falsifiability, and it just failed because the whole thing with
19 the scales you would put different data into it, and it just
20 kept spitting out the same result, and that really led to the
21 third model.

22 And here is the interesting thing about the third
23 model: Noll said he devised a third model where in his words
24 he would impose, impose a limitation on what people wanted.
25 And that really is not part of this type of modeling. You

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1 don't impose tastes.

2 THE COURT: Well, you limit choice though. You could
3 limit choice. I think even in the questioning of him he said,
4 look, I could reduce it from 29 teams to three; I can set up to
5 limit choice; I don't need to give them 31 choices.

6 MR. KEYTE: You can certainly limit choice. But what
7 Dr. McFadden made clear is you have to be very, very careful --
8 and it really applies very much in this case -- when you start
9 removing what the actual data shows about somebody's interests.
10 And I was used as the example, where I might have a favorite
11 team but I like to go look at scores, I like to go look at what
12 is going on in some other games. That may have some limited
13 time, but it's really, really valuable to me. And so that
14 makes me more of a package purchaser; that's the natural
15 consequence of that.

16 THE COURT: Well, you fall in group three, the
17 multi-team. No? No, no, I mean you would say. You would say.

18 MR. KEYTE: You would think.

19 THE COURT: You would say that.

20 MR. KEYTE: I would say that, absolutely. And I would
21 say you can frankly raise prices for me because I'm going to
22 stay in that group because I like those options.

23 But what Dr. Noll does -- as Dr. McFadden said to kind
24 of fix some of the problems of having that void just there --
25 is he what is called zeros out the utility of having those

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1 choices. And Dr. McFadden says you just don't do that when
2 you're trying to understand, in a sense you're trying to
3 measure and build a model around those varied choices. And so
4 this is where you're frankly headed down the road of creating
5 an avatar that you've limited their choices, then all that is
6 left is what happens to the model, which we'll get to. And
7 that's been a run's end to frankly the very counterintuitive
8 result of the 99 percent one, which we talked about at length.

9 Now, Dr. Noll acknowledged that this was because of
10 the so-called logit error -- you have heard about it over and
11 over again -- which arises when preferences in stated utilities
12 are not known. And you create more of these when you start
13 defining, imposing limited tastes of what you do know, and that
14 becomes more expansive. And, as we've heard, Dr. Noll said the
15 result was driven by these group three consumers who cared only
16 about price. And we just heard that earlier today.

17 THE COURT: Well, he said they were more price
18 sensitive.

19 MR. KEYTE: More price sensitive, precisely. They're
20 more or the most price sensitive.

21 THE COURT: Right.

22 MR. KEYTE: And then this really turned into a very
23 interesting kind of debate about that question. First Dr.
24 Ordover showed a slide that said, well, they're not price
25 sensitive, and that was at the dollar amount that was in the

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1 package. And then even in response today we ran another model
2 and it's not price sensitive even at a lower price, even at a
3 very much, much lower price of 7.51. It doesn't change.

4 MR. DIVER: Is this new?

5 MR. KEYTE: This is in response to just what happened
6 today.

7 MR. LANGER: This is not even in the record, your
8 Honor.

9 THE COURT: Yes, it was in the record. No, no, he was
10 asked if it was exactly the same price, the stand-alone and the
11 league package. But, no, no, the league package price in
12 particular was \$20 and whatever cents, but the stand-alone
13 price he predicted was 7.51. So all they are doing is making a
14 slide saying if the stand-alone and the league were equally
15 cheap instead of equally expensive, that's all. But the same
16 price.

17 MR. KEYTE: And more or less it's the same result for
18 the same reason.

19 Now, Dr. McFadden who is the Nobel laureate in this
20 area came in and explained that the result is actually driven
21 by math assumptions within the logit model itself; it has
22 nothing to do with consumer sensitivity to price or any kind of
23 real consumer behavior; and he explained actually that Noll
24 cannot correct that because his model in fact can't be driven
25 just by price because he imposed preferences other than price

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1 in his three categories. So, by the design of the model it
2 can't be completely driven by price at all. The design of the
3 model is to focus --

4 THE COURT: Well, if you have three different results
5 within any one result there is no preference. In other words,
6 you have the result for one team people, the result for two,
7 and there is no preference within the group.

8 MR. KEYTE: And even as Dr. Noll testified, you don't
9 set up different price sensitivity in the model to the three
10 groups. That's not in there.

11 THE COURT: I know, he said the model produced that
12 result.

13 MR. KEYTE: It produced that result.

14 THE COURT: Right.

15 MR. KEYTE: And so Dr. McFadden explained in great
16 detail, and we spent a lot of time, and essentially what we say
17 in these slides, these avatars, they have to take the bus, and
18 the bus is the math problem that creates this one percent
19 because there are so many buses versus cars that the math will
20 naturally create this problem -- again, as Dr. McFadden
21 explained -- where you don't have a lot of preferences really
22 being measured because as in most models, C and Y and others,
23 you don't have this problem because there is a robust number of
24 preferences being measured and this problem doesn't exist. In
25 this one it's a big void that's filled with nothing but this

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1 math DNA, and it does this, and this is what you get.

2 Now, I think this is a very, very important point.
3 Dr. Noll admitted essentially that Dr. McFadden is the leading
4 expert on the planet on this model, this very model. He won a
5 Nobel Prize for developing this field, the logit modeling with
6 this inherent math problem. So, when Dr. Noll says, no,
7 they're just price sensitive, and Dr. McFadden says it has
8 nothing to do with any actual consumer's sensitivity or not,
9 it's just inherent in the model, I think respectfully I would
10 go with the Nobel laureate.

11 THE COURT: I think that's a poor argument. I'm sorry
12 you made it. That's just saying defer to the guy who won the
13 Nobel Prize. I can't do that, and I have never done that. I
14 have had other Nobel Prize winners here, and sometimes they
15 win, and sometimes they lose. I can't do it just because he
16 won the prize.

17 MR. KEYTE: I'm sorry if that implied that.

18 THE COURT: It did.

19 MR. KEYTE: It's not because he won the prize; it's
20 that this is the work that he has been doing for 50 years.

21 THE COURT: I understand he's an expert in choice
22 theory and he understands the mechanism of choice. That's what
23 he said he did. He knows how to model choice, I get that.

24 MR. KEYTE: And I would say it is undisputed -- and I
25 think Dr. Noll would agree -- that it is the math that drives

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1 this result. So, let's go --

2 THE COURT: There is no doubt about it, that's what
3 Dr. Noll did say, he said it comes from running the model, the
4 result comes from running the model. He said I didn't do it;
5 the model when it's run produces that result.

6 MR. KEYTE: Exactly. And it produces that result
7 because you don't know enough about other consumers to see how
8 they would actually behave in response to any kind of prices,
9 which is, you know, what the other two slides show.

10 And, by the way, there was this suggestion that Dr.
11 Noll said if I just wanted to watch any team, I would just
12 watch one team and then watch who they play, and that can make
13 me, even if I like a lot of teams, and I'm really price
14 sensitive --

15 THE COURT: No, what he said is if you like the
16 game -- that's what he describes as the multi-team viewer and
17 he really just likes the game -- and if the stand-alone is
18 cheaper and you can watch a game every night, it doesn't matter
19 that one of those teams is always whoever, Boston or New York,
20 it doesn't matter, you would get to watch baseball.

21 So, if it's cheaper compared to the package, why
22 wouldn't you go with the single? And after a while I began to
23 understand that point of view. The problem is that during the
24 cross-examination you said what if the price isn't different,
25 why would you then pick a stand-alone? And I have trouble with

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1 that.

2 MR. KEYTE: Exactly. And the other point that I think
3 becomes obvious is if you really just like the sport, and you
4 want to watch some games, you watch your local RSN, play
5 everybody, and you don't buy the package at all.

6 THE COURT: Well, that's what he said.

7 MR. KEYTE: No, you don't buy the package.

8 THE COURT: I know that. You buy the stand-alone.

9 MR. KEYTE: You don't buy anything.

10 THE COURT: Oh, you don't buy anything. Can you watch
11 every night if you don't buy anything?

12 MR. KEYTE: Sure, you have your local RSN with the
13 baseball, and they play other teams. And you buy your cable.
14 You don't buy a separate package at all.

15 THE COURT: No, OK. But you do have to spend money to
16 watch every night.

17 MR. KEYTE: Sure, it's just different. It's not going
18 out and buying a monthly package. You are doing what you
19 probably already buy.

20 THE COURT: You're buying your monthly cable package.
21 But, for example, the Yankees are a big part of those cable
22 packages we are told; they attract people to that package.

23 MR. KEYTE: Absolutely. But take me, the fan -- and
24 now I'm not the die hard Yankees fan who likes other things --
25 I just like baseball, I'll watch the Yankees, and they will

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1 play a bunch of other teams, I will pay my cable bill, but I'm
2 not interested in the package at all, which has implications
3 for a model where I'm supposed to be the one interest in the
4 package just to watch the game.

5 So I'd like to go back to the basic testing. Dr.
6 McFadden explained that with these discrete choice models the
7 data should match very closely. That's the whole point of all
8 this discussion of General Measure of Moments and GMM, that it
9 should match very closely. And he showed that with the three
10 categories it doesn't match closely. And then another slide on
11 how many RSNs, it doesn't match closely. And the plaintiffs'
12 response is basically they put in a new slide today. And one
13 thing of course, if you recall, it actually doesn't match
14 really closely; it has a little bit of ups and downs, and so it
15 doesn't actually meet that "match closely" criteria.

16 THE COURT: It may depend on how you define closely.

17 MR. KEYTE: It was closer for sure. But the most
18 important thing is that to get to that result they had to
19 basically change the actual data of what consumers did. They
20 essentially said let's take away those consumers that watch
21 other games, other RSNs, for only a few minutes or some
22 cut-off. Well, as a matter of methodology the whole point of
23 this GMM approach is to match your model with the data that is
24 there.

25 THE COURT: They're not really watching another game.

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1 I mean if you flip your channel for a second to get to another
2 channel. That's what he was mentioning. That was an example.
3 You're on your way to your channel, you trip over another
4 baseball game, you happen to note the score; you haven't really
5 watched another game.

6 MR. KEYTE: I believe I heard a couple minutes or an
7 hour.

8 THE COURT: Well, I never knew a baseball game to end
9 in an hour.

10 MR. KEYTE: Well, this is a very important point, your
11 Honor.

12 THE COURT: It is. All I'm saying is they are not
13 watching another game, that's for sure. They may be watching a
14 score, maybe they're watching a part of a game. They are
15 certainly not watching a game.

16 MR. KEYTE: Yeah, it goes back to who are we taking
17 about. We are talking about consumers that have a wide variety
18 of tastes, and the consumer that wants to just watch in on some
19 games, who was very interested in the package, the only way
20 they can try to make this match better is really to get rid of
21 those consumers, and that as a matter of methodology is not
22 what this entire area is about. You're supposed to have the
23 model replicate what is actually going on, not change what is
24 going on so it can try to fit the model.

25 THE COURT: I think the assumption is would you buy a

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1 package if it was three times more just so you could check in
2 on the score.

3 MR. KEYTE: Right. He is assuming away -- essentially
4 he is assuming by zeroing out -- he is assuming that I will
5 give up those choices.

6 THE COURT: Well, those moments.

7 MR. KEYTE: Those moments to buy something lower. But
8 as a matter of methodology you don't change the actual facts to
9 fit your model; you model the actual facts, and then --

10 THE COURT: But you can't model let's say a hundred
11 different viewer tastes. You do have to get them into some
12 categories that you can work with. You can't work with a
13 hundred different types of viewers, those who watch for 30
14 seconds, those who watch for one minute, those who watch --

15 MR. KEYTE: Actually in this area they have thousands
16 of parameters.

17 THE COURT: Different characteristics?

18 MR. KEYTE: Yes, this is what they do. This is why
19 it's a big black box and there are a lot of things that go on
20 for hours, because there are hundreds and potentially thousands
21 of parameters and different consumer arrangements. So here we
22 are just talking about getting rid of some minutes or hours so
23 that I can make my model fit. And as a matter of methodology
24 that's a flaw.

25 So, we have the final conclusions of Dr. Pakes and Dr.

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1 McFadden in terms of reliability. You heard it over and over
2 again, and so you know that.

3 But going back to methodology and fit, I think it's
4 useful for the court to divide those into two categories:
5 Methodology and fit. The cases do. This is obviously the
6 Daubert statement about that.

7 So, the next slide is a little busy but I think it's
8 important. I'm not going to go through it all. We just
9 collected, your Honor, the methodological flaws in Dr. Noll's
10 model. So these are the ones that fit into in a sense why the
11 model as a matter of methodology is not reliable under the
12 science of these very two specific areas.

13 And then the second one really goes more to the joiner
14 issue of fit. Even if you can get past the first one, it still
15 has to fit the industry you're modeling. And so we also
16 collected these, your Honor, because each one of them, each one
17 of them have serious fit problems.

18 So, the bottom line is that our position is of course
19 that Noll's model lacks the rigger outside in the academic
20 community and, therefore, it should not be acceptable in the
21 court.

22 THE COURT: Thank you.

23 Mr. Burke?

24 MR. BURKE: Good afternoon, your Honor. Once again I
25 share Mr. Keyte's thanks to you and your clerks for all your

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1 attention and efforts in this complicated matter.

2 I'm going to cover in the time I have some issues that
3 just relate to the classic class certification issue as opposed
4 to Daubert, four basic points.

5 First, we are going to cover the fact that there is a
6 fundamental disconnect between plaintiffs' theory of the case
7 and Dr. Noll's model. That by itself can resolve this.

8 Secondly, we're going to briefly review the fact that
9 there is evidence that there is winners and losers in the "but
10 for" world. We're going to talk about Dr. Noll's efforts to
11 refute that, which really ultimately almost all of them fall
12 back on the claim that we're introducing collusion or double
13 marginalization. That's essentially where everything boils
14 down.

15 And then finally I will just point out that all of the
16 points that Mr. Keyte has made with respect to Daubert also
17 apply to class certification. The standard is different for
18 class certification, the burden is on the plaintiffs to prove
19 by a preponderance of the evidence they can show common impact.
20 And all of the deficiencies that Mr. Keyte has identified apply
21 to that class certification analysis too.

22 So first we went through this a little bit in the
23 opening. Ms. Wilkinson showed this slide.

24 THE COURT: I know, but we probably shouldn't waste
25 time on that, because they disavowed this as a goal that

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1 they're seeking compensation for. It's sort of a background
2 fact, but I remember asking Mr. Diver at the outset of the
3 hearing are you still pressing for relief for that conduct, and
4 he said no.

5 MR. BURKE: I guess I will just say that's not clear
6 to us, your Honor.

7 THE COURT: Still not clear?

8 Mr. Diver, did you not answer my question and say you
9 are not seeking relief based on that content?

10 MR. DIVER: That's correct.

11 THE COURT: All right, so now it's clear to you.

12 MR. BURKE: So, this is totally out of the case?
13 We're not going to have any liability?

14 THE COURT: Yes, it's totally out of the case as to
15 conduct for which they are seeking relief. The facts are not
16 out of the case; the facts may lead to other facts. But they
17 are not seeking relief based on that conduct.

18 MR. DIVER: We are not seeking damages based on --

19 THE COURT: I said relief. Well, all right, maybe
20 injunctive relief.

21 MR. BURKE: We can't get a straight answer out of
22 Mr. Diver.

23 THE COURT: Well you did. He's not seeking damages.
24 He may be seeking injunctive relief -- we'll hear from him --
25 but not damages.

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1 MR. BURKE: And I don't think there is a basis then to
2 certify an injunctive class either here, because there is still
3 a disconnect between the model. There is no other way to prove
4 there is a class impact unless you got this model.

5 Dr. Noll has said that he is not including -- he is
6 still including blackouts. So, that is the disconnect that we
7 feel is still present here.

8 The second disconnect is content exclusivity.
9 Plaintiffs claim that they're not challenging content
10 exclusivity. We have explained really what drives the outcome
11 is the right side of this schematic. You have two companies,
12 two separate economic actors, selling the same product in
13 competition with each other. It's as if, your Honor --

14 THE COURT: No, they're not totally separate. We have
15 been round and round on that too. To some extent they are and
16 to some extent they're not. After all, the league package is
17 then shared equally with 30 teams. The teams are on the left,
18 the league is on the right, but they share revenue.

19 MR. BURKE: Well, Dr. Noll's model assumes they act
20 totally independently.

21 THE COURT: I understand they act independently. I'm
22 just he kept saying it's ridiculous to call it free feed; it's
23 not free feed; they are paid 1/30th on the back end and they
24 know it. It's not free.

25 MR. BURKE: Well, here is the thing, your Honor. If

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1 you were selling your house, and then you let someone sell the
2 exact same house in competition with you, but they said I will
3 give you 1/30th of what I can sell your house for, that's going
4 to drive down the price of your house, and you are going to get
5 1/30th of nothing. That's what they're doing.

6 THE COURT: I don't think that's the least bit
7 analogous respectfully, but OK.

8 MR. BURKE: They are selling the same thing in
9 competition. That's what drives the damages that Dr. Noll
10 found.

11 THE COURT: But the teams wouldn't make a dollar if
12 they weren't a league. There need to be teams, there needs to
13 be a league, there need to be competition. You can't compare
14 it to the sale of a house.

15 MR. BURKE: It's the same intellectual property being
16 sold. Again, just to be clear, that is what drives Dr. Noll's
17 result. It's the fact that in a very almost unheard of
18 situation you have two companies who are acting
19 independently -- he posits must be acting independently --

20 THE COURT: I'm not going to argue with you longer,
21 but I was always taught when the judge doesn't see it your way,
22 move to the next point.

23 MR. BURKE: Let's go to the 1/30th point. So, what is
24 the consequence of Dr. Noll's model? What happens is the
25 consumption of the league package goes way down, and fewer

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1 people purchase it, so actually the amount of money to be
2 shared declines substantially, so teams actually get paid less.
3 In the real world --

4 THE COURT: They are not looking for much money from
5 that source.

6 MR. BURKE: But they are supposed to be compensated
7 for the use of their intellectual property.

8 THE COURT: I understand, but they don't really care
9 how much. That's not their major revenue. They get their big
10 revenue from the national games, the stand-alone, everything
11 else. They don't expect much money out of this 1/30th.

12 MR. BURKE: OK. But then here is why they should.
13 Because the team selling this product in competition -- the
14 league selling this product in competition with the teams
15 drives down the money that the teams can make. In a world
16 where there was no out-of-market package they could charge much
17 more for this. The fact that the out-of-market package --

18 THE COURT: They could charge much more for what?

19 MR. BURKE: For their stand-alone feeds. So, it's
20 that competition again between the league package and what the
21 teams are doing that drives down what the teams can make on
22 their stand-alone package. So that's why I think Dr. Ordovery's
23 testimony was they would charge a per-subscriber fee, and here
24 is the reason.

25 THE COURT: I'm sorry. They?

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1 MR. BURKE: I'm sorry. The teams. Why would the
2 teams charge a per-subscriber fee? Because they're losing
3 subscribers to the league. There is an opportunity cost.
4 Every time the league sells a package, that means the team is
5 not. So that's why if you are selling your input to a rival,
6 you are going to charge a per-unit fee to that rival to
7 compensate you for that diversion.

8 It's actually just the same point that Dr. Pakes made
9 with respect to multi-product pricing. You take into account
10 when you are pricing something that diversion, that lost sale.
11 The 1/30th doesn't have any relationship to that. That's why
12 it's very important to realize that that's how the teams would
13 behave if they were actually competing with the league. They
14 wouldn't be getting back enough of that -- that 1/30th, as you
15 say, it's very tiny, and it wouldn't compensate them for that
16 diverted lost sale.

17 I thought it was interesting that today I think for
18 the first time -- at least we hadn't heard it before -- that
19 Dr. Noll said the compensation is the 1/30th. I think all
20 along we had understood that there was just no compensation,
21 but maybe I missed it. But I think it's interesting what Dr.
22 Noll testified himself when he was asked about this 1/30th in
23 his deposition. He said that it's close enough to zero that
24 for modeling purposes we're ignoring it.

25 So, in Dr. Noll's own analysis he thought that 1/30th

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1 was so tiny he actually ignored it. It's nowhere in his model.
2 But I find it surprising today that we learned that that
3 actually is how teams are being compensated. So this is
4 another fundamental --

5 THE COURT: By the league for the feed.

6 MR. BURKE: Correct. So again if I can get anything
7 across to your Honor, it's that diversion point, that being
8 paid 1/30th doesn't compensate you for that lost sale when the
9 league package takes away a sale from the teams.

10 So, I don't want to belabor this because we have heard
11 a lot about this and there is limited time. There has been a
12 lot of evidence about winners and losers, and I think Dr.
13 Ordover had presented this analysis that showed in the "but
14 for" world prices would be higher.

15 In addition, Dr. Pakes showed a number of analyses, if
16 you will recall, where he said if you change stern assumptions
17 about Dr. Noll's model, it changes the results.

18 So, for example, he showed the analysis where if you
19 got multi-product pricing, if an MVPD like DirectTV thinks I'm
20 not going to treat these 30 products as if they're all
21 separate, I'm going to again think about how they interrelate
22 with each other, how one sale diverts from another, that's
23 going to result again in the league package being more
24 expensive. And then for all of those analyses Dr. Pakes did he
25 showed that if you made those corrections the price of the

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1 league package would go up.

2 Now, I think it's really important here -- and we
3 heard it this morning from Dr. Noll -- is this: "I didn't
4 disagree with the results that Dr. Ordover and Pakes got."
5 That's what he said on the stand this morning. He doesn't
6 disagree with the mathematics. He doesn't disagree that that's
7 profit maximizing behavior, that they would actually do that.
8 His only answer is two things: Collusion and double
9 marginalization. His position is, yeah, those things are
10 profit maximizing, but they're collusion.

11 Now, I think with all due respect it's your Honor's
12 decision about what is collusion and what isn't collusion, not
13 an economist's, but I think all of our economists we did ask
14 that question of.

15 We asked Dr. Pakes, and his view was, no, it's not
16 collusion for a joint venture to take into account the
17 interests of its owners or for the owners of a joint venture to
18 have influence over the actions of the venturer. And that
19 actually is good law. We think that goes back to BMI, ASCAP,
20 all the old cases that say if you have to come together to
21 create a new product, that you can influence the pricing of
22 that product. Just like the ASCAP and BMI licenses, you
23 couldn't create those licenses unless you had a joint venture
24 in the first place. And the members of that joint venture have
25 a legitimate interest in deciding how that pricing is going to

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1 be set.

2 Dr. Noll doesn't agree with that law, that Supreme
3 Court precedent, but with all due respect I think the law
4 controls, not necessarily Dr. Noll's view of what is
5 appropriate.

6 Again, Dr. Ordover also talked about this in his
7 testimony saying that what he was modeling was bilateral
8 negotiations, not collusion. It was a sequential set of
9 bilateral negotiations, but that's the only way to do this kind
10 of analysis.

11 So, I think it's very important at the end of the day
12 it's your Honor's view that matters here about what is
13 collusive and what isn't, but we don't think the analyses are
14 collusive.

15 And I guess one thing that we would say is that we
16 think Dr. Noll and the plaintiffs have been kind of
17 contradictory about what counts as collusive or not. Now, the
18 plaintiffs call Dr. Ordover's actions collusive. They say Dr.
19 Ordover's model maximizes the joint profits of the league and
20 the RSN. His model, in other words, is simply a Bertrand model
21 with collusion instead of competition.

22 Yes plaintiffs and Dr. Noll do exactly the same thing.
23 They use the exact same language to describe what they're
24 doing. Mr. Diver says in his opening, "What Dr. Noll has done
25 is make the assumption that the defendants would choose the

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1 price that maximizes their joint profits."

2 Dr. Noll testified, "As profit-oriented businesses,
3 they would continue the league-wide business because it's
4 jointly profitable for them to do."

5 So, Dr. Noll and the plaintiffs say it's OK to jointly
6 profit maximize when it helps their case, but when it doesn't
7 help their case it's collusion.

8 THE COURT: That's certainly not the first quote. It
9 says the defendants would choose the price that maximizes their
10 joint profits. That's the defendants.

11 MR. BURKE: Right. But he's describing what they
12 would do in the --

13 THE COURT: So you can't count that statement. He's
14 not supporting that. The other statement is his, and I think
15 the "they" there is the teams and the league.

16 MR. BURKE: Yeah. What he is talking about in that
17 second statement is whether there would be an out-of-market
18 package. So you recall Dr. Noll does an analysis where he says
19 let's assume a world where there is no out-of-market package
20 and let's assume a world where there is an out-of-market
21 package. And he compares industry profits under one scenario
22 and the other. He doesn't look about whether it's profitable
23 for any particular member of the industry. He says we're just
24 going to look at overall industry profits, as to whether that's
25 profit maximizing or not. So it's OK.

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1 THE COURT: He didn't say -- well, I'm not going to
2 argue with you. He is simply saying the league would continue
3 the league-wide business because it's good for all the teams in
4 the league to do that. That's how I read that sentence, but we
5 don't know.

6 MR. BURKE: Well, I think it's not just good for the
7 league.

8 THE COURT: And therefore good for the teams.

9 MR. BURKE: Well, actually, look, to be honest, your
10 Honor, we agree with that analysis. We think Dr. Noll and
11 Mr. Diver were right that it is appropriate to do that.

12 THE COURT: Mr. Diver didn't say that. Take him out
13 of it. He said the defendants would choose to.

14 MR. BURKE: We think it's fine to look at overall
15 industry profits. That's exactly what Dr. Pakes and Dr.
16 Ordover do in their analysis.

17 So, the problem is that the plaintiffs and Dr. Noll
18 move and shift depending on what's convenient here. And we
19 think it's actually fine for there to be joint profit
20 maximization -- or to look at joint profits -- but you can't
21 have it both ways.

22 Finally -- I'm not sure how much time is left -- our
23 favorite topic.

24 THE COURT: Lots of time, 12 minutes.

25 MR. BURKE: Oh, my gosh. Our favorite subject is

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1 double marginalization. So, we have heard a lot about this,
2 and I think we just thought let's look at a contract. We
3 actually haven't done a lot of this in the context of this
4 case. Here is a contract for an RSN, between an MVPD and an
5 RSN. And what do we see? We say there is an in-market feed.
6 A monthly license fee is equal to the number of service
7 subscribers times the monthly rate. So it is a per subscriber
8 rate. What do we see in little Roman three? "Further, for
9 each out-of-market service subscriber, affiliate" -- that's the
10 cable company -- "will pay network a monthly license fee equal
11 to the numbers of subscribers times the rate, a per-subscriber
12 fee."

13 So, actually this is pretty close to what we are
14 talking about. You have an RSN selling its product
15 out-of-market. Now today the games are actually blacked out
16 but they're still paid a few pennies because people like to
17 watch the shoulder programming.

18 So, this is the real world. Dr. Noll said we're
19 introducing double marginalization, but there is a margin
20 charge already, there is a per-subscriber fee already. This is
21 not collusive. It's not these things are treated kind of
22 interchangeably, the collusion point and the double
23 marginalization point. There is nothing collusive about having
24 these per-subscriber fees.

25 We obviously asked the experts about this. This is

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1 Dr. Pakes. Does marginalization occur in RSN distribution by
2 MVPDs in the actual world? The answer is yes, at least if you
3 believe Yurukoglu and Crawford.

4 And you will recall that Dr. Pakes testified that
5 there is a newer article by Y&C which actually talks
6 specifically about RSN distribution. So, the first article was
7 about all kinds of contents, of CNN, ESPN, and Fox and etc.
8 The new article is specific to RSN distribution, and that
9 article finds double marginalization.

10 THE COURT: I thought that article wasn't in evidence.

11 MR. BURKE: Well, I mean Dr. Pakes testified to it.
12 I'm not sure --

13 THE COURT: Really? Then I'm misremembering. I
14 thought there was one that I said he couldn't talk about.

15 MR. BURKE: I think that was one of his supplemental
16 analyses. He had withdrawn an exhibit, and he was talking
17 about why he withdrew that exhibit, but the article itself I
18 think is part of the record.

19 THE COURT: I'm not sure about that.

20 MR. DIVER: We certainly never put the article in the
21 record.

22 THE COURT: Yeah, I didn't think so.

23 MR. DIVER: And there is an issue with that too.
24 There are several editions of it. It's a working paper, not a
25 published paper, so it's not a definitive version.

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1 THE COURT: That's my memory, that it wasn't in
2 evidence.

3 MR. PARIS: Just for clarification, the article is
4 cited in his declaration, and there was never an objection to
5 it, your Honor.

6 MR. BURKE: So, I mean we will be happy to clear that
7 up, but I think it's quite clear that the people that Dr. Noll
8 considers to be the gold standard, from whom he derives his
9 work, believe that there is double marginalization both with
10 respect to the traditional cable networks and also specifically
11 with respect to RSNs.

12 And let's finish up with our favorite economists C&Y.
13 There is a lot of stuff here, but this actually was shown to
14 Dr. Pakes, and I think this actually settles the issue.

15 The first sentence is actually Dr. Noll's point. It's
16 a lot of complicated stuff, but I think what he is saying
17 linear input costs -- linear pricing means per unit pricing,
18 per-subscriber fee. So linear pricing is double
19 marginalization. He says it's true that people will sometimes
20 try to get rid of double marginalization by using fixed
21 transfers. But then Y&C go on to say when there is downstream
22 competition, however, commitment to linear contracts is one way
23 of avoiding the dissipation of profit due to such competition.

24 What is that? Multi-product pricing. You have to
25 take into account when you are using multiple kinds of channels

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1 of distribution that they're going to take sales from each
2 other. If you charge all those people a zero marginal cost,
3 they're going to drive down the prices and then you're not
4 going to make any profit. So, that's why when you've got
5 multiple channels of distribution you charge a margin. You use
6 linear pricing to control a chain of distribution. That's what
7 Dr. Ordoover was saying. That's what Dr. Pakes is saying.
8 That's what C&Y say as well. They are the people that Dr. Noll
9 relied upon, yet he ignores their analysis and does not apply
10 this.

11 Finally, your Honor, I would just point out that the
12 points that were raised by Dr. Pakes and Dr. McFadden continue
13 to apply here with respect to class certification. This is the
14 classic quote from Rail Freight: "No damages model, no
15 predominance, no class certification."

16 I don't know if we have any time left. We were going
17 to reserve a little time for Mr. Paris to speak about the
18 (b)(2) issue.

19 THE COURT: Yes, we have nine minutes.

20 MR. BURKE: OK. I guess I didn't know we had that
21 much time, your Honor.

22 THE COURT: Yes.

23 MR. PARIS: Thank you, your Honor. You asked a
24 question of Mr. Diver at the beginning of his opening as to
25 whether they could satisfy the (b)(2) standard without showing

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1 class-wide injury, and the answer to that is they can't.

2 There is a case pretty much directly on point on this
3 issue from the Southern District of New York, a decision by
4 Judge Cote in an antitrust case called Freeland v. AT&T. I put
5 the relevant quote up on the screen and it's cited in the
6 brief.

7 Basically what happened there is Judge Cote threw out
8 the expert analysis by the plaintiff, and there was no
9 methodology by which they could prove class-wide injury, and
10 finding that they would have to establish an element of
11 liability individually, and she said there was no way to
12 establish class-wide injunction. So, that is one reason why
13 they cannot establish the (b)(2) standard.

14 There is another reason why they cannot establish the
15 (b)(2) standard, which is that the class is composed of former
16 subscribers. And we see this in Dukes. The Supreme Court held
17 that one of the reasons why the class that reached the Supreme
18 Court in Dukes was overturned was that half of the members of
19 that class were composed of former employees of Walmart, and
20 they had no claim to injunctive relief, so class-wide
21 injunctive relief wasn't viable.

22 And other courts have also --

23 THE COURT: So, you're saying there are no current
24 subscribers who are class representatives?

25 MR. PARIS: It's a mix. It's a mix. And we are going

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1 to look at that evidence.

2 So the Dukes holding has been applied in consumer
3 cases. This is a Mercedes case that we quoted that said Where
4 there is a mix of former owners of vehicles and the current
5 owners, you also can't have a (b)(2) class because they are not
6 all entitled to injunctive relief which is forward looking.

7 And what's the evidence in this case? These are just
8 among the class representatives. We have a mix of current
9 purchasers and former purchasers; they're asking for -- in our
10 case we have three out of the four class representatives in
11 each of the Internet class and television class are actually
12 former purchasers. And the reasons they have given in their
13 deposition for not purchasing the class actually don't have
14 anything to do with the territorial restraints at issue.

15 And I don't necessarily have time to go through this
16 in detail, but if you just look at Mr. Lerner, what he said is
17 he represents or wants to represent the MLB Internet class, and
18 he purchased it for one season in 2011, and then he switched to
19 watching Extra Innings on TV, which is a different proposed
20 class, and that's bought by his wife -- and we actually
21 resolved that in an arbitration issue, a different issue -- and
22 he did that because of quality reasons. So, he never went back
23 to Dot TV, he never bought it since 2011.

24 Mr. Traub made the opposite decision. He moved from
25 television, which is the proposed class, to the Internet

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1 because it has features he likes better.

2 Mr. Silver used to buy CenterIce from DirectTV.

3 THE COURT: No, this one relates directly to the
4 territorial problem. He says I can always watch the home feed
5 which I prefer. So that's blackout related.

6 MR. PARIS: But it's not related to the territorial
7 blackouts. Actually DirectTV -- he is talking about his local,
8 the local channel, which in that case wasn't carried on
9 Comcast -- or wasn't carried on DirectTV because DirectTV and
10 Comcast hadn't reached an agreement on it. It wasn't a
11 blackout that's being challenged in this case. So, when he
12 switched to Comcast he said, well, I didn't buy the package
13 because I wanted to see what their selection of games was, and
14 I was traveling a lot and so I didn't buy it then. And then he
15 said, well, the next season I didn't buy it because I had a
16 medical issue and I couldn't focus on television because of the
17 pain killers I was on, and then I didn't buy it again at the
18 moment I deposed him. And as far as we know he hasn't bought
19 it still. He's not entitled to injunctive relief because he is
20 not showing any imminent injury, and so on.

21 So, that's the status of the current class reps just
22 like the former employees in Dukes.

23 Now we also have evidence that's in the record of the
24 fact that people leave the television platforms as well as the
25 Internet platforms just in general, they stop buying DirectTV

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1 service, and they stop buying Comcast service. DirectTV
2 reports a figure called churn which is the number of people
3 that actually leave DirectTV. This one and a half percent rate
4 that's in our annual report reflects the number that leave
5 every single month, so about 18 percent a year. We have seven
6 years of class, and every year of the 20 million DirectTV
7 subscribers, 18 percent leave our platform every year. The
8 same happens with Comcast. That reflects that since the
9 beginning of the class period in 2008 two and a half million
10 television customers have left.

11 THE COURT: And they are not replaced with new ones?
12 Is that a net loss?

13 MR. PARIS: No, it's not. Well, for the Comcast it is
14 a net loss. For DirectTV, they are replaced with new ones.
15 But the point is this evidence shows a continual change-over in
16 the subscriber base.

17 And in response to this evidence, there is nothing
18 from the plaintiffs that show that every single member of the
19 proposed national classes is entitled to injunctive relief,
20 because they would benefit from this injunction. It's their
21 burden, and the court is required to conduct a rigorous
22 analysis that they have satisfied these burdens, and they
23 haven't.

24 What they have said is that the plaintiffs might go
25 back into the market and buy again. And that's not what the

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1 court is supposed to be asking the question. The Supreme Court
2 in Dukes did not ask, well, like the plaintiffs that are former
3 employees become reemployed at Walmart. They didn't do that
4 because you need to make the decision now based on the facts
5 that are in front of you, and you can't -- well you shouldn't
6 certified a (b)(2) class on this evidence.

7 THE COURT: Thank you.

8 MR. PARIS: Thank you.

9 THE COURT: All right. Plaintiffs.

10 (Continued on next page)

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1 THE COURT: All right. Plaintiffs.

2 MR. DIVER: I, too, thank your Honor and the Court for
3 having the patience to deal with some of these issues.

4 The first issue I guess I will address is Mr. Paris'
5 issue on the (b)(2) class. I have to admit I was somewhat
6 surprised by his argument that former subscribers are not
7 members of the class at all.

8 THE COURT: Of the injunctive class?

9 MR. DIVER: Of the injunctive class. Well, they're
10 members of the damaged class obviously. And this is an issue
11 that has been briefed and, frankly, resolved by the Court in
12 the past. They made exactly the same argument with respect to
13 standing to seek injunctive relief for the same plaintiffs,
14 okay. So the issue is not whether we can prove that they will
15 in fact purchase something in the future. They are
16 participants in this market. They are likely to buy baseball
17 and hockey programming in the future. And they will certainly
18 be benefited by having more choices at lower prices, all of
19 them, which is the relief that they seek. So it's just simply
20 not the case that the former subscriber issue -- I think I
21 referred to the briefing on this issue. I think both in the
22 class certification briefing it's addressed. It was addressed
23 in summary judgment. And I think it was addressed on the
24 12(b)(6) issue.

25 I do want to kind of back up and try to address the

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1 question more generally of how the damages model fits into the
2 theory of the case, which I think goes to your question about
3 this. Defendants have said on a number of occasions that no
4 damages model, no impact, no class, and I want to show you why
5 that's simply not true.

6 The plaintiffs are challenging the territorial
7 restraints and monopolization of out-of-market distribution of
8 its programming. As in any antitrust case, the effects of this
9 are broad, but the effects directly felt by the class members
10 are also broad. The clearest and most direct effect of it is
11 to deny market choices to the class members.

12 Again, these are all people who have purchased not
13 only baseball and hockey programming, but full league package
14 baseball and hockey programming. They are all people who are
15 at that sort of high end of interest in the sport. The second
16 main cause, and, indeed, one of the main purposes, is to raise
17 the prices of local sports programming, local RSN programming.
18 And third, but only third, the effect is to raise the prices of
19 the out-of-market packages.

20 Turning to the first issue --

21 THE COURT: Which is what the model of Dr. Noll's goes
22 to. So, are you going to tell me if you were to lose, and you
23 certainly hope you don't, you'd only lose number three but
24 you'd still have one and two without Dr. Noll's model?

25 MR. DIVER: That's correct.

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1 Now, plaintiffs have made clear in their briefing
2 throughout, they have made clear in the summary judgment
3 briefing, in the class certification briefing, Dr. Noll
4 testified as to this, that one of the primary effects is the
5 loss of market choice the consumers face. Plaintiffs have
6 never denied it.

7 THE COURT: You mean defendants? Defendants you mean?

8 MR. DIVER: Defendants, they simply ignored it. I
9 want to show you a quote from your Honor's opinion in the
10 12(b)(6) opinion. It specifically says reduced customer choice
11 and increased prices when they are the result of
12 anticompetitive practice constitute antitrust injury, and it
13 cites the *Brantley* case.

14 THE COURT: Well, it doesn't cite to it; it's a full
15 quote. It quotes *Brantley*.

16 MR. DIVER: Exactly. And it quotes that "reduced
17 choice (due to the inability to purchase *à la carte*
18 programming) is antitrust injury."

19 The Court there found that there wasn't antitrust --
20 there wasn't anticompetitive conduct but it said if there's
21 conduct, then this constitutes antitrust impact, and that was
22 the holding of your Honor. We have repeated this again and
23 again, and the defendants have simply ignored it.

24 The second effect is to raise the prices of RSN
25 programming. Now, it's true that not everybody pays for RSN

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1 but most people in the class pay for RSN programming and most
2 people are charged a higher price because of it. In fact, it's
3 not really in dispute. The defendants have never argued that
4 the price -- that the costs of RSN programming are not raised
5 by their practices. Their central defense is to say that they
6 need that programming to have increased value in order to
7 create certain other benefits, but the fact that the prices are
8 raised is not a disputed issue.

9 THE COURT: I'm sorry. Which prices are raised?

10 MR. DIVER: The local, in-market RSN prices and the
11 affect on people who subscribe to their cable as a result of
12 this. You can't pick up the paper without reading a new story
13 about how the cost of sports programming is going through the
14 roof and driving up the price of cable bundles. That's exactly
15 what's going on here, and they're not denying that it happened.
16 They're saying it's justified for some other reasons; but if
17 they're wrong and it is a violation, then the impact is theirs,
18 in the price --

19 THE COURT: Your opponent just discussed the in-market
20 situation whether you were challenging in-market restrictions,
21 but I think you said no; but I guess this is not in-market
22 restriction you're talking about.

23 MR. DIVER: Some history may be helpful here. As your
24 Honor will recall in the original complaint, these rights fees
25 were not only a part of the relief sought; the class included

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1 anybody who paid elevated prices through their Comcast or
2 DirecTV, not any cable television system.

3 And your Honor ruled that while this was, in fact, an
4 injury that resulted from the alleged conspiracy, that these
5 plaintiffs are not efficient enforcers under the Associated
6 General Contractor's rule and, therefore, those plaintiffs were
7 dismissed from the case, but you specifically allowed that the
8 remaining subscribers, so television could continue to assert
9 those claims. So what we have done, and we have been
10 consistent, is that we're continuing to assert that this is
11 antitrust injury, but we're not seeking to calculate the actual
12 amount, okay. So we're going to seek relief for it, but only
13 prospectively.

14 THE COURT: Injunctive relief?

15 MR. DIVER: Injunctive relief; exactly.

16 THE COURT: Okay. And then if Mr. Paris is right, you
17 can't get that either, right?

18 MR. DIVER: Yes.

19 THE COURT: Okay. This I get.

20 MR. DIVER: Although that would also -- any current
21 subscriber to a television package would have this relief, even
22 under Mr. Paris' characterization.

23 THE COURT: I guess he found a case that said if it's
24 a mixed class of former and current, then it wouldn't be
25 class-wide relief and you wouldn't be able to get injunctive

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1 relief; and then he put on the screen that many of your
2 representatives are former with an express lack of intention to
3 come back in the market.

4 MR. DIVER: And their ability to proceed with their
5 challenges, their standing to do so, has already been tested
6 and resolved.

7 THE COURT: I understand for damages retrospective. I
8 don't know about prospective.

9 MR. DIVER: No. Specifically this argument that they
10 have challenged these named plaintiffs' ability to seek
11 injunctive relief is because of that issue, okay.

12 So the third affect on the class members the
13 overcharge they pay on the out-of-market packages. So the
14 remaining class members are defined by the fact that they
15 purchased an out-of-market package, and we allege they paid
16 high prices because of it.

17 The basic theory is straightforward. They purchased a
18 product, it's the same product that the other class members
19 purchased. They paid essentially the same price for that
20 product.

21 THE COURT: You're talking about the out-of-market
22 packages?

23 MR. DIVER: The out-of-market packages. If it was
24 priced too high because of a restriction on competition, then
25 they all paid the same amount too much. There's variations,

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1 but those are easily accounted for, and we haven't heard any
2 disagreement with that basic contention.

3 So realizing that the out-of-market package damages is
4 just one part of the case helps to understand why Dr. Noll's
5 model is not a model of the entire case. Dr. Noll's model is a
6 model that is trying to find a fair estimate of what that
7 product should have cost, okay? It's not intended to model all
8 of the effects of the antitrust violation in this case.

9 THE COURT: Okay.

10 MR. DIVER: Now, I don't want to spend too much time,
11 but I think your Honor understands that the core issues in this
12 case are really all common issues. Even the issues related to
13 impact and pricing that we're talking about here are common
14 issues really entirely, okay? These are the impact common
15 issues. The out-of-market package issue they claim is not
16 common once you get to this winners and losers argument. But
17 for them to get to their winners and losers argument, they
18 first to have to do what we spent the last three days talking
19 about, which is to say that there is no appropriate benchmark
20 pricing that Dr. Noll established either because the products
21 wouldn't exist, the price would be higher or because Dr. Noll's
22 model is not admissible. All of that applies to the class as a
23 whole. There's frankly, no reason why any of those arguments
24 need to be resolved now. They can all be resolved on a class
25 basis.

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1 THE COURT: That may be if he is still in the case
2 after the *Daubert* challenge.

3 MR. DIVER: Exactly, but --

4 THE COURT: I understand from there, you're saying if
5 he's allowed in, then it becomes a common issue.

6 MR. DIVER: Right.

7 Now, one thing that's important to keep in mind,
8 because we're proceeding on an overcharge theory, because we're
9 saying that the harm should be measured by the overcharge, by
10 the amount people should have paid, it applies on a class-wide
11 basis and we're not the first to say that that renders this
12 winners and losers argument irrelevant. As you see in the *Visa*
13 *Check/MasterMoney* antitrust litigation, a winners and losers
14 argument is immaterial when an antitrust plaintiff proceeds on
15 an overcharge theory.

16 And we can show you why this is in this case. These
17 are the issues that will be faced at trial: The first are all
18 of the various issues involved in whether or not defendants'
19 practices are legal or illegal. If the defendants win their
20 rule of reason case, they will have won on a class basis. If
21 they don't, the question will then be did plaintiffs suffer
22 overcharge damages. If the defendants win on that, the
23 plaintiffs will not be able to show damages, any of them.

24 The next question will simply be should the Court
25 issue an injunction. That injunction will have no

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1 individualized component. This is not like *Dukes* or -- it
2 would simply be an injunction against defendants' practices.
3 So there's no part of the trial that involves assessing winners
4 and losers.

5 Now, I have a number of slides to sort of make the
6 point that even at trial, the burden on plaintiffs for
7 establishing damages is a reduced burden. And the one I like
8 the most is this one because that's what the defendants are
9 arguing here. "Where there is a dearth of market information
10 unaffected by the collusive action of the defendants, the
11 plaintiffs' burden of proving damages is lightened." In this
12 case, there is no evidence of a competitive market in Major
13 League Baseball and National Hockey League programming because
14 these practices have now been in effect for some 30-odd years,
15 okay, so there is a dearth of market information about.

16 THE COURT: I understand about what a competitive
17 market would look like.

18 MR. DIVER: So that is the burden on plaintiffs trial.
19 The burden on plaintiffs at class certification, of course, is
20 not even that. It's to show that the plaintiffs will be able
21 to establish on a class basis under that standard at trial.
22 And, of course, under the *Daubert* standard, it's reduced to
23 another level. The question is whether Dr. Noll's model is
24 reliable enough to support the contention that plaintiffs will
25 be able to show damages on a class basis at trial.

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1 THE COURT: Everything so far has been background to
2 that question. You have not yet addressed reliability of
3 Dr. Noll, right?

4 MR. DIVER: Right.

5 THE COURT: Okay.

6 MR. DIVER: Now I would like to turn to Dr. Noll's
7 model. Now, one thing about Dr. Noll's model that I want to
8 highlight about the testimony we heard from the experts these
9 past three days is we did not hear anyone attacking the
10 underlying methodology.

11 THE COURT: I'm sorry? We what?

12 MR. DIVER: The underlying methodology.

13 THE COURT: I don't understand what you just said. I
14 thought I've heard nothing but that for two days.

15 MR. DIVER: Well, it depends on what you mean by
16 "underlying." Nobody said that structural modeling, the
17 Generalized Method of Moments or Bertrand's pricing models are
18 not reliable methods. To the contrary, every expert supported
19 the underlying methodology.

20 What they argued was that there should be some
21 additions to the model, that they should have done it a
22 different way, or that Dr. Noll made some errors in
23 implementation.

24 Not one of the experts testified that a reliable model
25 using these methods could not be estimated, nor did anyone

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1 argue that this is not the right general way of approaching the
2 question in this case, nor did any economist present the
3 results of any statistical test showing a statistical failure
4 of the model. There are standard ways of testing statistical
5 models and the defendants have not presented any such tests.
6 Dr. Noll did do such tests, but only he did them.

7 THE COURT: I don't know that that's accurate either.
8 Some of the charts that talked about predicted and actual, and
9 these came out in reverse of what one would expect.

10 MR. DIVER: There were no standard error type tests.

11 THE COURT: No, but there were a number of exhibits
12 that took issue with the results.

13 MR. DIVER: But there are industry standard
14 ways -- yeah, it took issues with the results, but they didn't
15 use sort of industry standard error testing methods. They
16 produced results that they thought looked bad is essentially
17 what they have done, and I will discuss that.

18 THE COURT: They did talk about such ways of testing
19 the validity of a model such as falsifiability or absurd
20 results, and then they used examples of both to show that this
21 model fails.

22 MR. DIVER: We can talk about -- absurd results is not
23 kind of a formal method of testing a model. It's a way of
24 looking at a model and seeing if it matches your intuitions or
25 not.

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1 Now, I want to address the issue of defendants' data.
2 So, as I stated, the plaintiffs' burden is reduced somewhat by
3 the fact that they have challenges involved in the production
4 of data. Much of the challenges that we have heard are that
5 Dr. Noll should have used more data. As we stated, the failure
6 to produce data is the risk goes on the defendants for that,
7 not the plaintiffs.

8 Now, Dr. Noll's model, again, part of it not being a
9 final model is it's a model of only three datasets in one year.
10 Now, we plan to run the model on more datasets when we receive
11 them. We have received certain data sets from some of the
12 defendants, but ultimately this is an ongoing violation. So,
13 we need to do this at the time of the final model, and we don't
14 know exactly when that is going to be.

15 So the data is limited in a number of ways, but in
16 other ways, it is extremely detailed by normal standards. It
17 is actual viewing data of actual people down to the individual
18 level of their actual purchasing details. And we have seen
19 that the model actually matches this detail data extremely well
20 in all of the ways that it's properly measured. We see the
21 means of standard deviations of the viewing times of the
22 individual teams of the margin of the market share. There are
23 charts like this for each team. These are the most and
24 least-watched teams in each dataset. And you can see that it
25 matches overall our conception of them.

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1 Now, turning to the challenges that the experts have
2 raised, I want to address some of the issues we have heard. We
3 heard a lot of challenges in the defendants' closings. But the
4 first is that this whole project is off to the wrong foot
5 because there would be no bundle in a but-for-world and the
6 only expert who testified in any way to support the lack of
7 existence in the but-for-world was Dr. Ordover. And
8 Dr. Ordover's testimony was based entirely on his conception of
9 content exclusivity. And we heard from Mr. Burke that they
10 still believe that content exclusivity is critical to the
11 existence of the programming.

12 And yet the facts that we have seen over the last
13 three days are that the leagues do exactly what the defendants
14 had been claiming they never do. The radio feeds, to use
15 defendants' terms, are appropriated by the teams and then the
16 league and then used to broadcast directly back into the home
17 territories and elsewhere. Major League Soccer operates
18 exactly as plaintiffs' claim they would do here in the sense
19 that the league has a league-wide package where they
20 "appropriate" the feed and then compete back into the home
21 territory of the producing RSN with that feed.

22 In fact, even the NHL does exactly what they say would
23 never happen for the NHL divides territories into exclusive and
24 nonexclusive territories. And a subscriber to DirecTV can view
25 an RSN feed through an out-of-market package that is competing

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1 with the local RSN.

2 Now, notably Dr. Ordover does not do any quantitative
3 analysis showing the lack of bundles existing in a
4 but-for-world. He relies entirely on the defendants'
5 statements that this content exclusivity is so necessary that
6 the content wouldn't exist without it. In relying on these
7 defendants, of course, he's ignored other of the defendants'.
8 Bob Bowman has testified repeatedly that content can coexist on
9 the Internet and on television. The Rangers as you know sued
10 the NHL because it recognized that the practices at issue
11 reduced output and raised prices.

12 Now, Dr. Ordover, as your Honor has acknowledged,
13 ignores the fact that the teams are compensated for the teams
14 in these arrangements. They're compensated the normal way that
15 teams are compensated by leagues in general, by a share of
16 their profits. Built into that is the fact that the leagues
17 want to evenly divide the profits, which, in fact, amounts to a
18 form of revenue sharing. Some teams end up worse off by virtue
19 of this. The Yankees certainly contribute more than 1/30th to
20 these national bundles and yet they receive only 1/30th of the
21 revenues or the profits.

22 So, Dr. Ordover concocts a theory that is not based on
23 any analysis of any of the ways that actual sports leagues act
24 presumably on the basis of basic economics that teams or RSNs
25 would start charging the leagues feed fees on a per-subscriber

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1 basis. Yet neither these leagues or any other leagues that
2 Dr. Ordoover could identify has ever done that in any sale of
3 intellectual property rights.

4 THE COURT: I thought on the defense argument
5 Mr. Keyte said that's how it's done now, and he showed me a
6 sleight about per-subscriber mark-ups.

7 MR. DIVER: Not from the teams to the leagues.

8 THE COURT: No, not from the teams, right, from the
9 MVPD to the RSN? Is that right?

10 MR. DIVER: I will address the MVPD to RSN in a
11 second.

12 THE COURT: Okay.

13 MR. DIVER: So, it's important to see that Dr. Noll's
14 assumption that the teams would provide these feeds for free is
15 hardly radical. That's how they do it today, that's how
16 include -- with all of their intellectual property. Nor is it
17 radical to assume that the leagues would compete with the teams
18 with this content. As we have seen, that's exactly what they
19 do today. That's what they do on the radio. That's what the
20 NHL does in the outer territories. That's what other sports
21 leagues do. Major League Soccer competes directly with the
22 RSNs in the distribution of its out-of-market packages.

23 Now, I want to turn to the issue that you raised of
24 bargaining. Now, Mr. Keyte argued, and I think we should note
25 that this is not correct, that simply because there is

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1 negotiation in a vertical market does not mean that one needs a
2 formal bargaining model.

3 A formal bargaining model is needed when, as a result
4 of the bargaining that you think will happen, you believe that
5 it will have an effect that ultimately changes the retail price
6 in a meaningful way. It only will do that under certain
7 conditions. It depends entirely on how the contracts are
8 structured.

9 So, for instance, the teams and the RSNs today are
10 almost always contracted with a flat fee. The team charges
11 \$50 million to the RSN. The RSN sells as much of it as it
12 wants. That has no affect on the retail price. There would be
13 absolutely nothing to be gained by measuring the bargaining
14 effects of that relationship in the but-for-world.

15 Nor is there any vertical relationship on the Internet
16 side that would have any cause to be bargained. The only
17 relationship that they plausibly contend wouldn't fall apart is
18 the RSN MVPD relationship. Now, I believe it was Mr. Burke who
19 put up a contract showing that there are per-subscriber fees at
20 that level, but what he didn't show you is that those contracts
21 also have requirements that those programs be placed on basic
22 tiers. Dr. Noll repeatedly testified that when per-subscriber
23 fees are combined with tiering, it reduces and nearly
24 eliminates the effect of double marginalization, and no expert
25 ever challenged that conclusion. So, the existence of double

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1 marginalization in the current world is minimal, and this is
2 not simply Dr. Noll's view. This is the view that the
3 Department of Justice came to after reviewing the Comcast/NBC
4 merger, okay, because there again, Comcast was arguing that
5 there's all this double marginalization in the cable industry
6 and the Department of Justice said no, really, there's not.

7 So, what we are talking about is not moving from a
8 per-subscriber linear fee now to a per subscriber linear fee in
9 the but-for-world because it would be a per-subscriber linear
10 fee without the effects of tiering. So what they're suggesting
11 is that the defendants would enter into agreements with
12 per-subscriber fees without any protection from double
13 marginalization because it wouldn't have tiering and it
14 wouldn't have anything else.

15 So Dr. Noll's basic assumption is, like the Department
16 of Justice, there probably wouldn't be much of an effect from
17 double marginalization; but the important point is if there
18 were much effect from double marginalization, that would be
19 against the defendants' interests and they wouldn't contract
20 that way. And we have seen that when there is a substantial
21 possibility of double marginalization, they don't contract that
22 way. The out-of-market bundles are sold to the MVPDs in ways
23 that prevent that effect. Those high-priced items, okay, that
24 would have a potential for substantial level of marginalization
25 are not priced that way. Similarly, as I stated, the teams do

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1 not sell to the RSNs in a way that has any possibility of
2 double marginalization.

3 So the basis for their argument on bargaining is
4 really the Crawford and Yurukoglu paper. And since the
5 beginning of the class certification briefing, it's been the
6 defendants' position, as I understood it, that because Crawford
7 and Yurukoglu did bargaining, then it's unscientific not to do
8 it in this industry.

9 Now, you've seen now several times that they have
10 qualified their own analysis by saying, yeah, this assumes
11 linear pricing which some people might think is unrealistic,
12 and then they provide a reason why they did it that way, but
13 there's no actual analysis as to whether that's the appropriate
14 way to do it.

15 But in any event, yesterday Dr. Pakes stated that in
16 fact you don't have to do the bargaining analysis that's in
17 Crawford in Yurukoglu. When asked if it was needed to do this
18 bargaining model as reflected in the C&Y paper, he said I don't
19 think ever I said that in either my report or in my deposition.
20 And then he went on to say that there are other ways that you
21 could look at this relationship. And he didn't have any that
22 he thought was necessary. All he said was that this
23 relationship needed to be analyzed.

24 But Dr. Noll had analyzed the bargaining issue. He's
25 discussed this from the beginning. He's simply analyzed it in

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1 a different way. This is not about methodology. This is a
2 dispute about how industry participants are likely to structure
3 their contracts if there's the double marginalization effect.

4 Now, Dr. Noll is plainly qualified to testify about
5 the sports broadcasting industry. I want to address as well
6 the issue that Dr. Noll is ignoring the MVPDs. He doesn't
7 again specifically analyze the relationship between the RSN
8 MVPD because he has concluded that the price that is charged to
9 the consumer will not depend on that relationship. So he
10 hasn't, again, he hasn't ignored the MVPDs, he discusses the
11 MVPDs and he says why he doesn't need to specifically address
12 the MVPDs.

13 The suggestion that he simply ignored the MVPDs or not
14 allow that they make a profit is simply wrong. He believes
15 that they would make a profit. He figures out what the maximum
16 profit with the RSN and the MVPDs together could charge, and
17 then he assumes that they split it in ways that was profitable
18 for both. Now once again, this issue applies only to the
19 television side. It has no application on the Internet side
20 where the sales are direct from the league entities to
21 consumers.

22 I briefly want to touch on the Yankees deviation issue
23 because this is another case of an attempt to try to fit a
24 dispute about how to properly model this market into something
25 called methodology, okay. He claims that the model is not an

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1 equilibrium, but there's really no dispute that it is an
2 equilibrium as long as you accept that the rules are as Dr.
3 Noll assumes they are. This is not a dispute about whether
4 there's equilibrium or not. This is not a methodological
5 dispute. This is a dispute about whether this rule is likely
6 to continue in this industry in the but-for-world.

7 As Dr. Noll stated, the reasons leagues have rules
8 that constrain teams is precisely because the teams are likely
9 to pursue their own interests in different ways that the
10 leagues don't like. So the fact that a team has an incentive
11 to do something else is, in fact, the reason for the rule in
12 the first place. The leagues have decided that it's in their
13 best interests overall, both because it's more profitable and
14 for other reasons that leagues take into account in making such
15 league rules.

16 Now, as we have discussed a number of times, the
17 Yankees have an incentive to deviate from probably most league
18 rules, certainly league revenue-sharing rules, national
19 television contract rules, any number of rules.

20 Now, I want to talk briefly about Dr. Pakes' joint
21 venture pricing analysis again. Again, he's presenting it as a
22 methodological issue and to do so, he's assuming that it
23 doesn't matter what the facts are. Now, Dr. Noll, of course,
24 believes correctly that this would be a collusive pricing
25 strategy, but it's also true that it's a quite plausible

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1 pricing strategy.

2 The league officials in both leagues in this case have
3 testified they do not set league prices above profit-maximizing
4 levels; in fact, they set prices below profit-maximizing
5 levels. Dr. Noll has explained why leagues have incentives to
6 favor central revenue over team revenue. And this leads to
7 them taking their own profits into account more than the
8 team's. And what defendants are suggesting is that the league
9 would give up its profits in order to spread them amongst the
10 leagues, which, of course, would also spread them less equally
11 among the teams as well.

12 THE COURT: I know he misspoke. He said "teams." He
13 meant "leagues." No problem. I got that.

14 MR. DIVER: I want to address the three type model
15 that Dr. Noll created.

16 THE COURT: What about the argument about the
17 multiproduct pricing that if it's one person doing the pricing
18 for two products, you can't collude because you can't collude
19 with yourself? So if the MVPD is selling both the standalone
20 and the package, they would take into account the effect of
21 price on one and the effect of price on the other without
22 colluding.

23 MR. DIVER: Right. I think there's a confusion in
24 that. Dr. Noll is not saying that DirecTV can't set prices to
25 the extent it has the power to set prices, but --

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1 THE COURT: He's saying the model doesn't take account
2 of multiproduct pricing techniques.

3 MR. DIVER: The model does not assume that DirecTV has
4 complete pricing power over the retail price. In fact, DirecTV
5 doesn't have retail pricing power over the league packages now
6 either. Those prices are set.

7 THE COURT: It has no control over the league package
8 price?

9 MR. DIVER: Well, it has some control over the league
10 package price, but it does not have independent pricing power
11 under either of the contracts. In both cases, the league has
12 some say in the pricing of those. So there's that, and DirecTV
13 also faces competition.

14 The way Dr. Pakes modeled that DirecTV faced zero
15 competition, so it was just simply setting the monopoly prices
16 as though there's no other baseball in the world, right, and no
17 other MVPDs and no anything. So that pricing model doesn't
18 take into account all of the constraints on DirecTV's pricing,
19 both from the source and from the competition. Now, the three
20 team --

21 THE COURT: Three categories?

22 MR. DIVER: -- the three categories, now this was, of
23 course, created in large part in response to Dr. McFadden's
24 suggestion that fans be fit into -- he had two types, superfans
25 and fans of the game. And Dr. Noll's response to that tried

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1 this multi-team thing, and it had a number of clear benefits
2 for the model, including capturing competition between the
3 teams in a way it never had before. I want to clarify some of
4 the ways in which this is done.

5 Mr. Keyte was incorrect that the model could not
6 account for his interest in the rest of the league.

7 THE COURT: Didn't Dr. Noll testify that he
8 zeroed-out, so to speak, those who watch less than an hour a
9 month of the other channels, you know what I mean, the ones who
10 flip through and take a quick look?

11 MR. DIVER: He said an hour a season.

12 THE COURT: Whatever. Those people, he zeroed out.

13 MR. DIVER: It doesn't assume that if you watch very,
14 very little that you're actually -- that the utility -- you're
15 not getting any utility from actually watching the channel,
16 okay, from the time spent enjoying watching a baseball game.
17 So Mr. Keyte is a perfect example of that. He likes to watch
18 the Yankees but his interest in other channels is not to watch
19 those games; it's to find out the score.

20 THE COURT: I know. I said you're not watching the
21 whole game the hour, but what he said is it has utility to him
22 and he would pay for it. He said he would pay for the
23 multichannel because he wants to be able to check out --

24 MR. DIVER: But that utility is captured for
25 Mr. Keyte. That's part of the logit utility term. So it's not

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1 that the model doesn't account for somebody who does that; in
2 fact, it accounts precisely for somebody who does that. He
3 gets utility from actually watching the Yankees and he gets
4 some other kinds of utility from having the package
5 information, feeling like he can check in.

6 THE COURT: All I know is he's placed in the first
7 category of the single-team fan.

8 MR. DIVER: That's right, that's right, because he is
9 overwhelmingly interested in watching the Yankees.

10 THE COURT: I know, but it's kind of an arbitrary
11 line. Where do you draw it? One hour, five hours, 30 minutes?
12 All I'm saying is it was zeroed-out of the analysis.

13 MR. DIVER: That's a good question. It's not an
14 arbitrary line in that sense. It's actually part of the
15 estimation process. The model figures out how many people are
16 in which category as part of the estimation for matching. So
17 it's part of what creates the match with the data. It's not
18 canceling out any data by the way. It's matching all of the
19 existing data, but it's using this method of dividing people
20 into three categories in order to better match the data.

21 Now, I think the idea -- I think intuitively, there's
22 a notion of someone like Mr. Keyte who really likes the Yankees
23 and he might like to have the package, right?

24 THE COURT: He said flat-out "I would pay for it."

25 MR. DIVER: Right, but what he wouldn't do was

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1 substitute to another team instead of the Yankees. He would
2 not realistically --

3 THE COURT: He did not argue that. He argued he would
4 want the multichannel thing.

5 MR. DIVER: He would either want the Yankees or the
6 multichannel. That's exactly who is precisely being captured
7 by the single team.

8 Now, there's been obviously a great deal of discussion
9 about how the multi-team fans come out in terms of their
10 likelihood of buying the bundle. Now, as Dr. Noll testified --

11 THE COURT: The real dispute is whether the price
12 incentive is the reason for what appears to be the skewed
13 numbers or not. And there was testimony by the experts for the
14 defense that it's impossible that it was driven by price
15 sensitivity. One of them put a slide on the screen that said
16 it cannot be, it has to be something else, and so a flaw is
17 created by the formula.

18 MR. DIVER: You know, it's hard to argue against an
19 expert like that, but I think it's clear that that's not true;
20 that what's happening is the multi-team fans are people who are
21 precisely, because they are responding to differences in
22 prices, that it's driving the prices down. So they are -- in
23 fact, the model is identifying them.

24 THE COURT: The problem was when they made the price
25 the same, it came out the same way anyway. And even when they

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1 made the price the same and very low, it came out the same
2 anyway. That was their point. They attempted, and maybe
3 successfully, to disprove that price sensitivity accounted for
4 that skewing. And therefore, they said it had to have come
5 from the modeling, I guess the logit error thing.

6 MR. DIVER: I'll get to logit error. There are two
7 issues about that. This is another example of sort of a
8 repeated strategy of the experts for the defendants of sort of
9 plugging in false information, false data, false prices into
10 the model in model in order to --

11 THE COURT: Is that fair or is it just changing
12 assumptions? They took Dr. Noll's number for the package,
13 \$20.05, and they just put it on both sides of the slide. So it
14 assumed that the price sensitivity was taken out of the
15 picture; and then they tested it and it came out the same way
16 anyway.

17 MR. DIVER: But as Dr. Noll testified, two things, one
18 that model is not an equilibrium because those prices would not
19 remain equilibrium, but also if you were to do that, as Dr.
20 Noll said, you would have had to reestimate the model from the
21 beginning.

22 THE COURT: That's true. He did say that.

23 MR. DIVER: It's not a way of actually testing the
24 model that's a standard test. In fact, the standard tests are
25 the fact that this fits the data extremely well. It passes the

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1 standard error test and so forth.

2 There's a question about how much of this is being
3 driven by the fact that plaintiffs are substituting because of
4 price and how much is being driven by the logit error, you
5 know?

6 THE COURT: Actually, no, I don't know. You said "you
7 know." I don't know how to decide that exactly. Do you want
8 to give your views on that?

9 MR. DIVER: The defendants don't explain how much of
10 this is being driven by the data and how much of this is being
11 driven by the logit error. They haven't provided any tests
12 that show this. But one thing that they certainly haven't done
13 is testified that this makes any difference in the results,
14 okay? The model is not testing every aspect of this. In fact,
15 it makes a number of predictions about things such as
16 individual team prices and market shares, and it doesn't really
17 matter like if they get these right.

18 If the relative prices of the Astros and the Blue Jays
19 and some other teams are not quite right, it doesn't really
20 matter because it all matters in how it effects the price of
21 the bundle. There's a single thing that the model is trying to
22 do.

23 THE COURT: Yes.

24 MR. DIVER: So there's a question that's never been
25 answered about whether this has -- well, it's never been

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1 answered by the defendants. Now, as Dr. Noll testified, in
2 fact, that if he thought that this were important -- it's not
3 what this model is about, so I would think on its face he
4 thinks it's important -- but if he thought this was important,
5 the way he would do it would be to change the weight of the
6 logit error.

7 And as he stated, he has a value that sets that that
8 is highly conservative because he didn't have a way of setting
9 it higher, but he knew that this would create a lower round on
10 damages to do it that way. So for all of these reasons, the
11 three-team chart, the 99/1 chart has not been shown that this
12 model has any fundamental flaw.

13 THE COURT: Are you going to spend some time on the
14 demand-side predictions of what that large 96 percent group
15 would do?

16 MR. DIVER: Yes. I am absolutely going to do that.

17 THE COURT: In the absence of a survey, it might help
18 to inform who they are and what their choices would be. Oh,
19 you were going to turn to that. Okay.

20 MR. DIVER: I'm going to turn to that. These are
21 slides from Dr. Noll's presentation this morning that in fact
22 this is standard practice. In fact, if you look at
23 Dr. Pakes' --

24 THE COURT: This is a group that, first of all, had a
25 survey; and, second of all, it had the demographic data from

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1 the census. There were two very big differences.

2 MR. DIVER: That's true. It had certain kinds of data
3 that we don't have here, but we also have certain kinds of data
4 that they didn't have there.

5 THE COURT: The argument is made that you could have
6 done a survey.

7 MR. DIVER: Well, Dr. Noll testified that a survey
8 here would have had to have been, you know --

9 THE COURT: Too complex. That's what he said.

10 MR. DIVER: Too complex, right. There's 30 different
11 teams and the market shares are very low. So you have to
12 survey a lot of people to even find a few, and you need more
13 than a few in order to have any statistical significance,
14 right? But this shows here the numbers of folks you have data
15 on compared to the rest of the market, in fact, this is not
16 only normal, this is precisely what the Generalized Method of
17 Moments is for.

18 THE COURT: I do understand that. The only difference
19 is, as I said, Dr. Pakes, in what he was looking at, was
20 describing two things you don't have: A survey and more
21 demographic data.

22 MR. DIVER: There was a slide, I don't have it here,
23 during the McFadden cross-examination in which it showed at his
24 deposition he was specifically asked if a study was needed to
25 make a scientific and he said no. He said it would be better,

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1 but that would not make it unscientific.

2 THE COURT: Okay.

3 MR. DIVER: Dr. McFadden had some other critiques,
4 but, again, I think it's fairly clear that the dispute about
5 the size of the market is not the kind of dispute that renders
6 a model such to a *Daubert*.

7 I want to take a second to talk about his discussion
8 of the insensitivity of the data to viewing times. Now, he had
9 a number of criticisms of the September model that he's now
10 dropped. He hasn't repeated them with respect to what they're
11 calling the third model, the most recent version of the model,
12 but what he has done is he's, again, plugged some artificial
13 information into the model in order to drive implausible
14 results.

15 He took the data and cut the viewing time in half and
16 plugged it into the model to see if it would change the prices.
17 The problem is, as he testified yesterday, he didn't change the
18 assumption of the price people actually paid. So he captured
19 two effects: People got half as much utility from watching,
20 but they're twice as willing to pay for each minute because
21 they watch half as much. This kind of critique is the kind of
22 sort of manipulation, frankly sophistry, that has no place in
23 certainly the *Daubert* challenge.

24 I want to say I haven't gone through each of the
25 elements of Rule 23(a) and (b) because in this case it's pretty

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1 clear that nearly certainly every requirement of 23(a) and (b)
2 is met.

3 I want to step back, too, to remind the Court that
4 what we're talking about here is a basic division of the market
5 horizontally into exclusive territories. This is an
6 arrangement that under the antitrust law is a per se violation
7 in virtually any other industry and why is it a per se
8 violation? Because it so clearly is anticompetitive, it so
9 clearly raises prices, and so clearly reduces output.

10 And yet, we have defendants coming and saying the
11 restraints here actually lower prices and increase output. I
12 submit that Dr. Noll's model is both reliable and suitable for
13 class certification. If you have any more questions --

14 THE COURT: No. All set.

15 MR. DIVER: Thank you for your patience with this
16 complicated material.

17 THE COURT: It's 3:22. What do you want to do?

18 MS. WILKINSON: We talked to plaintiffs, and I hope it
19 will help you, but we agreed all of the demonstratives and
20 exhibits should go into the record. We just need a day or two
21 to work together to make sure anything that might be sensitive
22 goes under seal. So we would agree to give every slide that we
23 used with the witness, cross or direct, and the exhibits and
24 during opening and closing to your Honor to have as part of the
25 record.

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1 THE COURT: As long as you identify that it was used
2 on opening or closing as opposed to during the testimony so I
3 kind of know at what stage; and if I refer to it in any
4 opinion, I know which I'm referring to.

5 MS. WILKINSON: We'll do it formally, too. Maybe if
6 your Honor doesn't mind, we do it in that way for yourselves
7 and put it in notebooks with the tabs with each witness that it
8 used with.

9 THE COURT: That will be fine. I'll get that by the
10 end of the week. Today is Thursday, so no.

11 MS. WILKINSON: Perhaps Monday.

12 THE COURT: Monday?

13 MS. WILKINSON: Would you like it tomorrow?

14 THE COURT: No. I wish I could believe for a second
15 that it would make a difference between Friday and Monday.

16 MS. WILKINSON: We were hoping you might want to take
17 a break. Some of our people want to take a break, so if you
18 don't mind we'll get it to you Monday.

19 THE COURT: That's fine. All right, everyone. Thank
20 you very much for a very organized and impressive presentation.

21 Decision reserved.

22 (Adjourned)

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