Joe Harrington

Paper's Motivation

Paper's Contributions

Understandin

Equilibrium

Future Directions

Christian Rojas' "The Role of Information and Monitoring on Collusion"

Joe Harrington

FTC Microeconomics Conference

November 6-7, 2008

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Understanding

Equilibrium

Future

Paper's Main Results

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Contributions

Understandi Results

Equilibrium Issues

- Rotemberg-Saloner theory: support is solid.
 - Collusion is less frequent under the high demand state than under the low and medium demand states.
 - When collusion is made easier for the high demand state, the gap between collusion under the low/medium demand state and the high demand state shrinks.
- Green-Porter theory: support is problematic.

Paper's Main Takeaways

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Understanding Results

Equilibrium

- With demand volatility, pseudo-tacit collusion is feasible.
- With imperfect monitoring, pseudo-tacit collusion is di¢ cult.
- Possible implication regarding explicit vs. tacit collusion
 - Incremental value of explicit collusion may be greater when there is imperfect monitoring.
 - Many cartels invested considerable time and exort in monitoring.
 - Need treatment allowing regular communication.

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Equilibrium Issues Time Preferences

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Self-Serving Remarks

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Results

Equilibrium Issues

- Many cartels monitored the agreement by using sales, not prices.
 - Examples: carbonless paper, citric acid, graphic electrodes, lysine, plasterboard, sorbates, vitamins.
 - Source: J. Harrington, How Do Cartels Operate?, 2006. (self-serving remark #1)
- Monitoring environment
 - Green-Porter: Monitoring in price when ...rms' quantities are private information.
 - Harrington-Skrzypacz (self-serving remark #2)
 - Monitoring in ...rms' quantities when prices are private information.
 - Main result: Symmetric punishments are inexective at supporting collusion.
- Experiments can shed light on the relevance of the informational setting faced by ...rms.