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BIDDING BEHAVIOR IN ALMOST COMMON VALUE ENGLISH AUCTIONS

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INTRODUCTION

- > Almost common value auctions (ACV) one bidder holds a value advantage.
- > Advantaged bidder theory predicts:
 - ➤ advantaged bidder bids aggressively while disadvantaged bidder(s) bid passively to avoid the heightened winner's curse (Bikhchandani 1988; Klemperer 1998; Rose and Kagel 2008).
 - > Expressive effects advantaged bidder wins all units and pays prices below the second highest reservation bid.
- > Experimental research has shown mixed evidence of exprosive effects:
 - ➤ No exprosive effects Levin and Kagel 2005; Rose and Levin 2008.
 - Some expressive effects Coatney, Shaffer and Menkhaus 2012:
 - ➤ advantaged bidder won most units at prices below disadvantaged bidders.
- > Lack of congruency between theory, experimental and empirical literature.
 - ➤ Theory in re real world no outside option for disadvantaged bidders.
 - ➤ Experimental findings no outside option and did not account for bidder psychology.
 - > Real world empirical analyses strategic bidding could not be econometrically identified.

OBJECTIVES

- > Allow bidders an outside option. If you had your druthers, would you take on the beast?
- > Account for relevant psychological attributes of bidders. Theoretical results require a stone cold killer v wimps.

METHODS

- > Experiments conducted at Mississippi State University.
- ➤ Subject pool primarily upper level undergrads and graduate students from the Department of Agricultural Economics.
- > Control for bidder psychological attributes of:
 - > assertive behavior Rathus Assertiveness Schedule
 - > aggressive behavior Buss & Perry Aggression Test
 - ➤ altruistic behavior Dictator Game
 - ➤ risk aversion Holt and Laury Test.
- Conducted 2 ACV treatments 6 replications each:
 - > ACV English Auctions with and w/o outside option
 - > 4 bidders 1 advantaged bidder 4 auction sessions each bidder advantaged once per replication







RESULTS

- > ACV no outside option no exprosive effects as in (Levin and Kagel 2005; Rose and Levin 2008).
- ➤ ACV with outside option no expressive effects, however, i) significant exit of disadvantaged bidders, (ii) advantaged bidder won most units at lower prices than disadvantaged bidders as in Coatney, Shaffer and Menkhaus (2012).
- ➤ Psychological Attributes i) More assertive participants are more likely to stay in the auction when there's an outside option and are more likely to stay in the bidding longer. (ii) More altruistic participants are more likely to drop out of the bidding early or not enter at all. (iii) Risk aversion has no effect on whether bidder participates in auction but more risk averse participants dropout of the bidding earlier. (iv) Aggression results were mixed.

CONCLUSIONS

- > The results of real world auctions are more consistent with ACV theory with an outside option.
- ➤ Bidder psychology matters. To observe the expressive effects, the advantaged bidder must be willing to exert their advantage and disadvantaged bidders must be willing to yield to the advantaged bidder.

