Computing Robust Counter-Strategies – M2

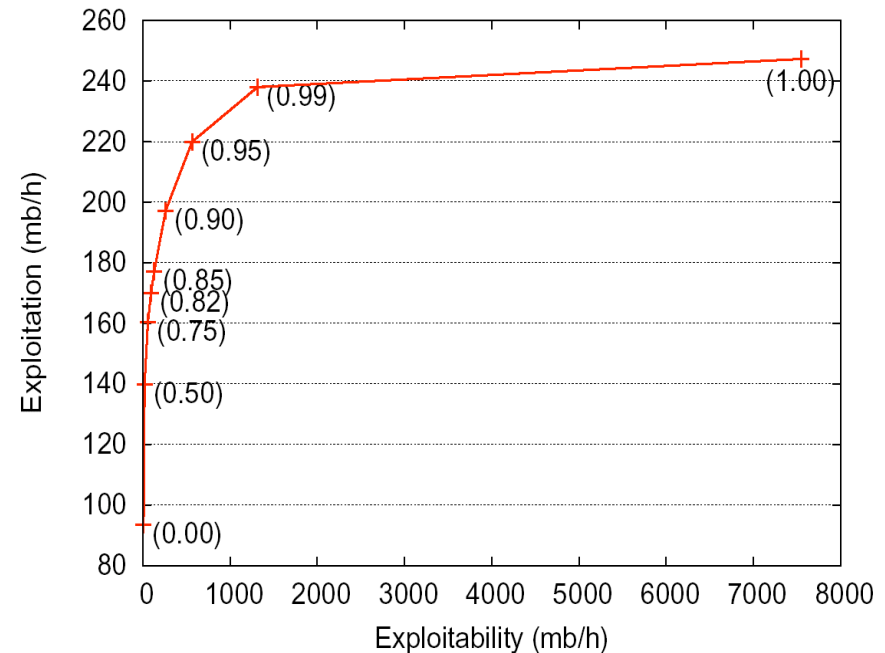
Michael Johanson, Martin Zinkevich, Michael Bowling

University of Alberta
Computer Poker Research Group

Possible Strategies for Competitive Scenarios:

♠ **Nash Equilibrium:**
Robust against arbitrary opponents
Does not exploit any opponent

♥ **Best Response:**
Maximally exploits one opponent
Loses badly to other opponents

A Compromise:
♣ **Restricted Nash Response:**
Exploits a specific opponent
Robust against arbitrary opponents

♦ Can choose the tradeoff between exploitation and robustness

♠ Demonstrated in Texas Hold'em Poker