CS TF1 TF2 Predator Prober 4 Handshake Winner21 Fortress4 Hard Prober Ripoff Tester Grudger TF3 Davis Retaliate 3 MEM2 EvolvedLookerUp1\_1\_1 Limited Retaliate 3 Forgetful Grudger Retaliate Retaliate 2 Fool Me Once Limited Retaliate 2 Limited Retaliate Meta Hunter Inverse Punisher HTfT Forgiver Punisher Fortress3 Inverse Winner12 Spiteful Tit For Tat 2TfT **Evolved ANN** Shubik PSO Gambler 1 1 1 **Evolved ANN 5** Thumper Forgetful Fool Me Once PSO Gambler Mem1 Evolved FSM 16 Noise 05 Level Punisher PSO Gambler 2\_2\_2 Omega TFT Adaptive Pavlov 2006 PSO Gambler 2\_2\_2 Noise 05 Gradual Evolved ANN 5 Noise 05 **Evolved HMM 5** Resurrection Adaptive Pavlov 2011 Adaptive Tit For Tat TfT **CTfT** Nice Average Copier Worse and Worse 3 EvolvedLookerUp2\_2\_2 FTfT Soft Joss Soft Grudger Evolved FSM 16 General Soft Grudger ShortMem Doubler Remorseful Prober Soft Go By Majority: 5 ZD-GTFT-2 ZD-GEN-2 Prober 2 Once Bitten **Revised Downing** GrudgerAlternator VeryBad Evolved FSM 4 Slow Tit For Two Tats 2 Firm But Fair Soft Go By Majority: 10 Soft Go By Majority: 20 **GTFT** Soft Go By Majority: 40 HTf2T Soft Go By Majority Eatherley Appeaser **WSLS** Math Constant Hunter Tf2T Slow Tit For Two Tats Grumpy Grofman Adaptive Stochastic WSLS Worse and Worse 2 Sneaky Tit For Tat Gradual Killer Stochastic Cooperator ZD-SET-2 ALLCorALLD Defector Pun1 **Eventual Cycle Hunter** Hesitant QLearner Meta Hunter Aggressive Cautious QLearner Risky QLearner Arrogant QLearner Better and Better SelfSteem Nydegger Average Copier Raider Cycle Hunter Random Hunter Aggravater Random **Defector Hunter** ZD-Extort-4 Calculator Alternator Hunter Cooperator Feld EasyGo Fool Me Forever Worse and Worse Desperate Tullock Cycler DDC ThueMorseInverse ThueMorse Cooperator Hunter ZD-Extort-2 v2 ZD-Extort-2 Alternator Cycler CCCDCD Cycler DC Cycler CCD AntiCycler Cycler CCCD Cycler CCCCCD Tricky Cooperator Negation Prober 3 Willing е π Bully Anti Tit For Tat Prober Joss Naive Prober Hopeless SolutionB5 Hard Go By Majority: 10 Hard Go By Majority: 20 Hard Go By Majority: 40 Tricky Defector WShLSt Hard Go By Majority Hard Go By Majority: 5 Suspicious Tit For Tat Opposite Grudger SolutionB1 0.0

0.2

0.4

0.6

8.0

1.0