$N = 14 p_{N-1}$ CS TF1 TF2 Predator Prober 4 Handshake Winner21 Hard Prober Fortress4 Ripoff Tester Grudger TF3 Davis Retaliate 3 Retaliate Forgetful Grudger Retaliate 2 MEM2 Limited Retaliate 3 EvolvedLookerUp1\_1\_1 Limited Retaliate Limited Retaliate 2 Fool Me Once Fortress3 Inverse Punisher Meta Hunter Punisher Forgiver HTfT Inverse 2TfT Spiteful Tit For Tat Winner12 Shubik **Evolved ANN** PSO Gambler 1\_1\_1 Thumper **Evolved ANN 5** Forgetful Fool Me Once PSO Gambler Mem1 Evolved FSM 16 Noise 05 Omega TFT Level Punisher PSO Gambler 2\_2\_2 Adaptive Pavlov 2006 H PSO Gambler 2\_2\_2 Noise 05 ٠Œ Gradual Evolved ANN 5 Noise 05 Resurrection Evolved HMM 5 Nice Average Copier Worse and Worse 3 Adaptive Pavlov 2011 **CTfT** Adaptive Tit For Tat TfT EvolvedLookerUp2\_2\_2 FTfT Soft Joss Soft Grudger General Soft Grudger ShortMem Remorseful Prober Doubler Evolved FSM 16 Soft Go By Majority: 5 Œ ZD-GTFT-2 ZD-GEN-2 Prober 2 **Revised Downing** Once Bitten GrudgerAlternator VeryBad Firm But Fair **GTFT** Slow Tit For Two Tats 2 Evolved FSM 4 Soft Go By Majority: 20 Soft Go By Majority: 10 Eatherley Soft Go By Majority: 40 Soft Go By Majority HTf2T Appeaser **WSLS** Math Constant Hunter Tf2T Slow Tit For Two Tats Grofman Grumpy Adaptive Sneaky Tit For Tat Stochastic WSLS Worse and Worse 2 Stochastic Cooperator **Gradual Killer** ZD-SET-2 Pun1 ALLCorALLD **Eventual Cycle Hunter** Defector Meta Hunter Aggressive Better and Better SelfSteem Hesitant QLearner Arrogant QLearner Risky QLearner Cautious QLearner Average Copier Nydegger **⊢**□ Random Hunter Raider Cycle Hunter Aggravater Random ZD-Extort-4 **Defector Hunter** Calculator Alternator Hunter Cooperator Feld Worse and Worse Fool Me Forever EasyGo Desperate Tullock ThueMorseInverse Cycler DDC ThueMorse Alternator Cooperator Hunter ZD-Extort-2 ZD-Extort-2 v2 Cycler DC Cycler CCCDCD AntiCycler Cycler CCD Cycler CCCD Cycler CCCCCD Tricky Cooperator Negation Willing Prober 3 Bully е π 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 0.6 0.0 0.2 0.4 8.0 1.0