a) Payoff comparison between experimental conditions 0.35 0.6 0.4 Mean hit rate 7.0 7.0 Mean score 0.3 Dyadic 5.0 Human-Human (HC) dyad ● 0.25 Human-Computer (HH) dyad 0.2 0.3 0 0.2 0 0.4 Solo_{HC} dyad HH dyad Solo_{HC} dyad HH dyad Solo b) HH dyad vs HC dyad c) Social modulation d) Contrast comparison 40 HC dyad > HH dyad 0.9 HC - Solo 10 30 Difference # Subjects Hit rate HC dyad 0.5 10 HC - HH Coherence 10 22 0 **5**9 0.1 HH dyad > HC dyad -10 % diff. 0 50 25 Solo > HC : HC > Solo 0.9 HC dyad > HH dyad 10 0.75 # Subjects Accuracy HC dyad AUC 0.5 0.5 HH > HC HC > HH 10 0.25 0.1 HH dyad > HC dyad 0 Solo > HC : HC > Solo 0.9 HC dyad > HH dyad 10 Eccentricity HC dyad 0.75 # Subjects AUC 0.5 0.5 HH > HC HC > HH 10 0.25 HH dyad > HC dyad 0.1 0

13 22 36 59 98

Coherence [%]

0.5

AUC

1

0

0.5

HH dyad

0.9

0.1