Measurement of single-trial ramping rate 1.5 Actvitiy Linear fit Ramping activitiy (z-score) 1 0.5 0 Ramping rate = 0.067, ***p < 0.0001 -0.5 0 5 10 15 20 25 Time after heat onset (s) 5 trials

A

Ramping rate = x, $log10(DT) = -3.94^* x + 1.66$ Ramping activitiy (z-score) Turn initiation time = DT - t Actvitiy -Linear fit for ramping rate 0 Time after heat onset (s)

Predicting turn initiation time from ramping rate

В

Time (a.u.)

Ε

3 Z-score

20

Time (a.u.)

19 trials

0.2

0.15

0.1

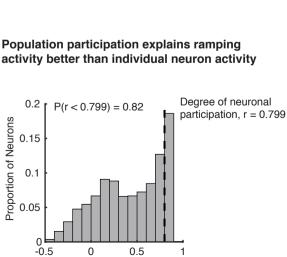
0.05

-0.5

Correlation with population activity

Proportion of Neurons

D



Time (a.u.)

Heat onset Turn initiation

Correct trials

Incorrect trials

