Signal detection model with fixed decision boundary а **Before normalization** After normalization Fraction choice A (%A) _% 10 (%) 100 _% 10 100 12 100 Updating Current stim pdating **Current stim** 50 50 0 50 0 Current choice ●Hard ■ Easy 0 12 0 12 100 50 50 100 50 50 100 100 0 50 100 0 Current stim (%A) Previous stim (%A) Current stim (%A) Previous stim (%A) Current stim (%A) Signal detection model with drifting decision boundary C **Before normalization** After normalization Fraction choice A (%A) _% 10 _% 10 100 12 100 12 100 Updating Updating **Current stim Current stim** 0 50 50 0 50 0 Current choice 0 12 0 Ó 50 100 0 50 100 100 100 50 50 50 100 0 Previous stim (%A) Current stim (%A) Current stim (%A) Previous stim (%A) Current stim (%A) е trial t-1 trial t trial t+1 Choice A (%) conditional on Odors Choice A (%) conditional on the odor in trial t the odor in trial t in trial t 48% 52% Fraction choice A 100 100-100 Same procedure as in (a) to get the heatmap <u>10</u>0 100 100 Odor in trial t-1 (%A) Odor in trial t (%A) Odor in trial t+1 (%A) trials t+1 & t trials t-1 & t Odor in t+1 (%A) Odor in t-1 (%A) 100 0 100 100 Ó subtraction of heatmaps Odor in t (%A) Odor in t (%A) Point-by-point (t+1 & t) - (t-1 & t) Current odor (%A), 00 Jpdating

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Previous odor (%A)