A
MSTd
7a
dlPFC
proportion
1
0
1 2 3 4 5 6 7
1 2 3 4 5 6 7
1 2 3 4 5 6 7
cluster number
B
cluster 1: mixed
cluster 2: sensiomotor not latents, eyes
cluster 3: not latents, eyes
cluster 4: LFP
cluster 5: LFP+move
cluster 6: not eyes & dist. target
cluster 7: LFP beta
proportion
0 5 10 15
variable index
sensiorimotor
latent
LFP
other
C
UMAP projection
centroids
MSTd
7a
dlPFC
UMAP cluster 1
UMAP cluster 2
UMAP cluster 3
D
LFP-spike phase coupling
dlPFC
MSTd
7a
18%
12%
3%
11%
7%
Theta phase [4-8Hz]
12%
4%
9%
24%
3%
Alpha phase [8-12Hz]
3%
59%
3%
37%
16%
Beta phase [13-30Hz]
E
7%
12%
4%
7%
4%
13%
4%
4%
22%
unit-to-unit coupling
F
pseudo-R²
0.25
0
coupled model
uncoupled model
0
0.25
pseudo-R²
proportion
-0.04
0.06
model fit improvement