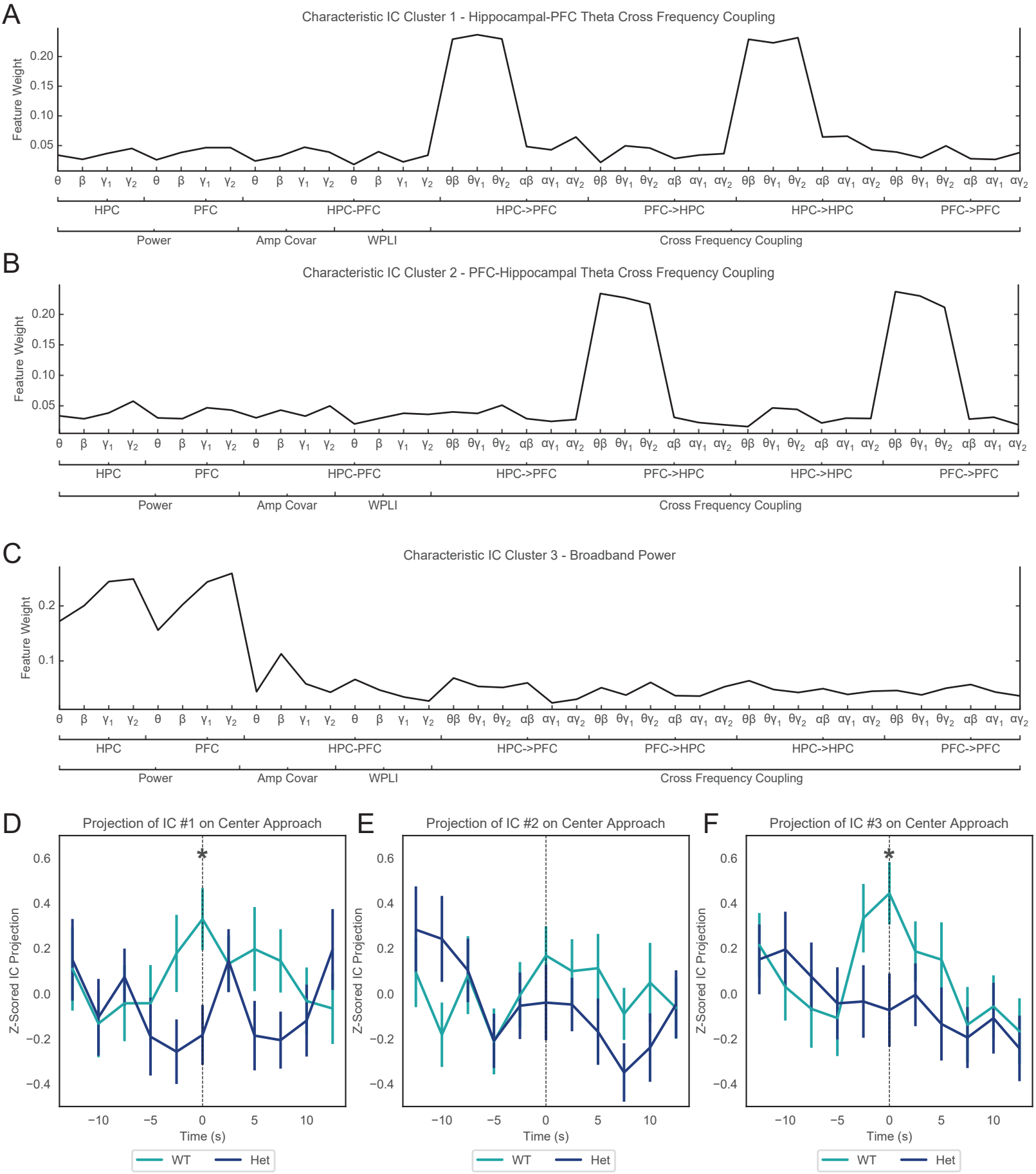
A
Characteristic IC Cluster 1 - Hippocampal-PFC Theta Cross Frequency Coupling
Feature Weight
0.20
0.15
0.10
0.05
θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2
HPC
PFC
HPC-PFC
HPC->PFC
PFC->HPC
HPC->HPC
PFC->PFC
Power
Amp Covar
WPLI
Cross Frequency Coupling
B
Characteristic IC Cluster 2 - PFC-Hippocampal Theta Cross Frequency Coupling
Feature Weight
0.20
0.15
0.10
0.05
θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2
HPC
PFC
HPC-PFC
HPC->PFC
PFC->HPC
HPC->HPC
PFC->PFC
Power
Amp Covar
WPLI
Cross Frequency Coupling
C
Characteristic IC Cluster 3 - Broadband Power
Feature Weight
0.2
0.1
θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θ β γ1 γ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2 θβ θγ1 θγ2 αβ αγ1 αγ2
HPC
PFC
HPC-PFC
HPC->PFC
PFC->HPC
HPC->HPC
PFC->PFC
Power
Amp Covar
WPLI
Cross Frequency Coupling
D
Projection of IC #1 on Center Approach
E
Projection of IC #2 on Center Approach
F
Projection of IC #3 on Center Approach
Z-Scored IC Projection
0.6
0.4
0.2
0.0
−0.2
−0.4
*
−10
−5
0
5
10
Time (s)
WT
Het