

Supplemental data for: EEG microstate  
sequences from different clustering algorithms  
are information-theoretically invariant

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We here give the full correlation matrices showing the correlation coefficients between static and dynamic microstate properties, for each algorithm. For each microstate algorithm, we obtain a set of  $n = 20$  (number of subjects) static and dynamic values. Statistically significant values ( $p < 0.05$ ) are indicated by a star (\*).

Clustering algorithm: **AAHC**

	$\rho_{\max}$	<i>GEV</i>	$h_{\text{Sh}}$	$\tau$	$h'_{n=8}$	<i>AIF</i> <sub>1</sub>
$\rho_{\max}$	1.0	0.452*	-0.397	-0.122	-0.133	0.138
<i>GEV</i>	0.452*	1.0	-0.132	0.023	-0.338	0.304
$h_{\text{Sh}}$	-0.397	-0.132	1.0	-0.213	0.237	0.131
$\tau$	-0.122	0.023	-0.213	1.0	-0.811*	0.556*
$h'_{n=8}$	-0.133	-0.338	0.237	-0.811*	1.0	-0.593*
<i>AIF</i> <sub>1</sub>	0.138	0.304	0.131	0.556*	-0.593*	1.0

Clustering algorithm: **KMEANS**

	$\rho_{\max}$	<i>GEV</i>	$h_{\text{Sh}}$	$\tau$	$h'_{n=8}$	<i>AIF</i> <sub>1</sub>
$\rho_{\max}$	1.0	0.716*	-0.143	-0.143	0.085	-0.127
<i>GEV</i>	0.716*	1.0	-0.514*	-0.044	-0.198	-0.234
$h_{\text{Sh}}$	-0.143	-0.514*	1.0	0.220	0.130	-0.052
$\tau$	-0.143	-0.044	0.220	1.0	-0.899*	0.640*
$h'_{n=8}$	0.085	-0.198	0.130	-0.899*	1.0	-0.580*
<i>AIF</i> <sub>1</sub>	-0.127	-0.234	-0.052	0.640*	-0.580*	1.0

Clustering algorithm: **KMEDOIDS**

	$\rho_{\max}$	$GEV$	$h_{Sh}$	$\tau$	$h'_{n=8}$	$AIF_1$
$\rho_{\max}$	1.0	-0.294	-0.107	0.384	-0.376	0.047
$GEV$	-0.294	1.0	-0.362	-0.444	-0.191	-0.108
$h_{Sh}$	-0.107	-0.362	1.0	0.132	0.578*	-0.219
$\tau$	0.384	-0.444	0.132	1.0	-0.544*	0.662*
$h'_{n=8}$	-0.376	-0.191	0.578*	-0.543*	1.0	-0.626*
$AIF_1$	0.047	-0.108	-0.219	0.662*	-0.626*	1.0

Clustering algorithm: **PCA**

	$\rho_{\max}$	$GEV$	$h_{Sh}$	$\tau$	$h'_{n=8}$	$AIF_1$
$\rho_{\max}$	1.0	0.062	0.076	0.149	-0.052	-0.233
$GEV$	0.062	1.0	-0.913*	-0.173	-0.738*	-0.083
$h_{Sh}$	0.076	-0.913*	1.0	0.282	0.684*	-0.032
$\tau$	0.149	-0.173	0.282	1.0	-0.443	0.705*
$h'_{n=8}$	-0.052	-0.738*	0.684*	-0.443	1.0	-0.439
$AIF_1$	-0.233	-0.083	-0.032	0.705*	-0.439	1.0

Clustering algorithm: **ICA**

	$\rho_{\max}$	$GEV$	$h_{Sh}$	$\tau$	$h'_{n=8}$	$AIF_1$
$\rho_{\max}$	1.0	-0.624*	0.233	0.256	-0.044	0.524*
$GEV$	-0.624*	1.0	-0.835*	-0.164	-0.601*	-0.312
$h_{Sh}$	0.233	-0.835*	1.0	0.183	0.748*	0.153
$\tau$	0.256	-0.164	0.183	1.0	-0.482*	0.380
$h'_{n=8}$	-0.044	-0.601*	0.748*	-0.482*	1.0	-0.083
$AIF_1$	0.524*	-0.312	0.153	0.380	-0.083	1.0