



Fig. 1. Illustration of the BrainSync concept: (a) the geodesic and Euclidean distances between points on the hypersphere corresponding to two time series are respectively $\cos^{-1}(\rho_{uv})$ and $\sqrt{2-2\rho_{uv}}$; (b),(c): data from cingulate (red), motor (green) and visual (blue) cortex for two subjects after dimensionality reduction to 3D; (d) data from subject 2 after application of BrainSync to subject 1 followed by dimensionality reduction identical to that for subject 1 in (b). (e) Representative time series for two subjects for a single cortical location before and after synchronization.