

Description of Additional Supplementary Files

File name: Supplementary Movie 1

Description: *Temporal evolution of the fMRI BOLD data during wakefulness and sleep embedded in lower dimensional spaces for one subject.* The video shows the intrinsic three-dimensional manifold of subject 7, with color coding for both (A) sleep stage and (B) time-index. fMRI BOLD data shows smooth intra-stage transitions and inter-stage shortcuts. The frame rate is 10 times faster.