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Title: Tracking recurrence of correlation structure in neuronal recordings

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ACCEPTED MANUSCRIPT

PCo, a multiscale method, determines the recurrence of neural correlation structure

PCo operates at multiple temporal and spatial scales without dimensional reduction

 $\ensuremath{\mathsf{PCo}}$ detects different place cell ensemble states which represent the environment

PCo reveals anomalous brain states in field potentials from an animal epilepsy model

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