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## **Synchronization on fully connected graph with periodically switching edges**

*Wednesday, April 6, 2011 9:00 AM (1 hour)*

We investigate synchronization of the Kuramoto oscillators with dynamic interaction patterns. The oscillators are fully connected and each edge is periodically switched with different phase. Through this model, we try to understand how dynamic interaction patterns change synchronization phenomena. Measuring phase order parameter, we found the model shows interesting temporal response to dynamic interaction patterns. In particular, the temporal structure of phase order parameter has asymmetric sync-desync behavior for strong coupling and fast switching.

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