

Collectivity via Connectivity

Punit Parmananda¹

¹Physics Department IIT Bombay, MUMBAI, India

Synchronization of two or more oscillators is analyzed, experimentally, in a network of oscillators. This includes numerous manifestations such as the emergence of first order and second order Kuramoto transitions and chimera states to name a few. The consistent observation of such phenomena across diverse experiments emanating from different domains indicates to the robustness and the ubiquitousness of these features.