

Life at the edge, complexity and criticality in biological function

Monday, September 4, 2017 12:00 PM (30 minutes)

The organization of biological form and function is a classic problem, cut-crossing disciplines, which include a variety of complex spatiotemporal patterns. Historically, work focussed first into the understanding of self-organization and later attention shifted to scale-free collective fluctuations, many of them shown to correspond to critical phenomena. In that context, I will review our work on critical dynamics across several scales uncovering novel understanding of proteins, mitochondria and brain function.

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Session Classification: Session 1