

## Joint QST-CMP Seminar

## Landau ordering and other novel phase transitions beyond the Landau paradigm

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Date: July 08, 2019

Time: 11.30 am

Venue: AG 69, TIFR



I will discuss recent results on a variety of novel quantum phase transitions, focusing on systems in 3+1 dimensions. I will describe several surprising quantum critical phenomena - examples will include multiple universality classes for the same phase transition, the concept of unnecessary quantum criticality, and Landau ordering transitions that are beyond the Landau paradigm. Time permitting I will describe a possible simple dual description of a strongly coupled 3+1-D quantum field theory.