Harvard University Department of Physics Colloquium

Monday, February 24, 2020

4:30PM ~ Jefferson Lab 250

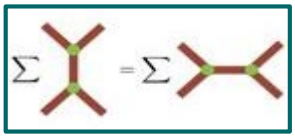
Colloquium Tea

3:45PM ~ Jefferson Lab 450

The Conformal Bootstrap Approach to Criticality in 3 and 2+1 Dimensions

Slava Rychkov
IHES

The standard view of critical phenomena, such as the liquid-gas critical point or the Curie temperature of a ferromagnet, is through the Renormalization Group. I will describe an alternative – view it as a self-consistent "soup" of interacting fluctuations, governed by tight equations of Conformal Field Theory. This approach is both rigorous and calculable, with unprecedented precision for the critical exponents of the 3D Ising and other models.



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