

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

INTERNATIONAL

SCIENCES

CENTRE *for* Theoretical

## **ICTS Condensed Matter Seminar**

**Title** : Universality, dynamical scaling and surface growth in quantum critical systems

**Speaker** : Devendra Singh Bhakuni (Ben-Gurion University of the Negev,Israel)

**Date** : Tuesday, 11<sup>th</sup> October, 2022

**Time** : 03:00 pm (IST)

Abstract : Universality and scale invariance play a crucial role in understanding the properties of a physical system both in and out of equilibrium. By generalizing the concept of classical surface roughness to quantum systems, I will discuss the emergence of universality and dynamical scaling in quantum critical systems with fractal eigenstates. A relationship between the critical exponents and the fractal dimension will be presented.

## Venue : Hybrid Mode

**Offline:** Emmy Noether Seminar Room

Online: Please click on the below link to join the seminar

https://icts-res-in.zoom.us/j/85421997122?pwd=M3FFS1d6Y0txSm9nTytEK2wxR1IXZz09 Meeting ID: 854 2199 7122 Passcode: 112211