



ICTS Statistical Physics Journal Club Seminar

- Title : Slow quench dynamics in classical systems
- Speaker : Kavita Jain (Jawaharlal Nehru Centre For Advanced Scientific Research, Bengaluru)
- Date : Thursday, 25th February 2021
- Time : 03:30 pm (IST)
- Abstract : The phase ordering dynamics of a system following an instantaneous quench have been well studied but such dynamics have been relatively less explored when the quench occurs at a finite rate. I will describe our analytical and numerical results on a kinetic Ising model and a zero range process when the system is annealed slowly to the critical point. Starting from the time-evolution equations, we derive the Kibble-Zurek scaling laws for the defect density at the critical point and elucidate the role of critical coarsening in the approach to the critical point.
- Venue : Please click on the link to join the meeting
<https://zoom.us/j/98710172400?pwd=OGQ5SXXNnTHJKYzZHdGwzZldvL2JvZz09>
Meeting ID: 987 1017 2400
Passcode: 584626