

ICTS Physics Colloquium

- Title : Statistical mechanical perspectives on cosmological puzzles
- Speaker : Christian Maes, Instituut voor Theoretische Fysica, KU Leuven
- Date : Monday, November 18, 2019
- Time : 3:30 PM
- Venue : Ramanujan Lecture Hall, ICTS Campus, Bangalore
- Abstract : We review some well-known paradoxes in cosmology and give a statistical mechanics reading. Puzzles to be touched include the horizon and the flatness problem, the information paradox, the dark energy problem and the origin of the so called space roar. Each time, we emphasize the role of statistical arguments to complement the dynamical understanding. In the end, we argue, statistical mechanics clarifies important aspects of the problems and has a great future in contributing to the understanding of newly observed "fluctuation" features of our cosmos.