



ICTS String Seminar

- Title** : Quantum Field Theory as a set of coupled ODEs
- Speaker** : Manuel Loparco (École Polytechnique Fédérale de Lausanne, Switzerland)
- Date** : Monday, 09 December 2024
- Time** : 2:30 PM (IST)
- Abstract** : The decomposition of the Hilbert space into Unitary Irreducible Representations of the spacetime isometry group is a foundational aspect of QFT. I will review how this works in de Sitter spacetime, motivated by cosmology, and I will present a proof of the irreversibility of renormalization group flows in 2D de Sitter spacetime that is based on this decomposition. Then, I will present some ongoing work on understanding how photons in de Sitter appear in the Hilbert space of massive free theories.
- Venue** : Chern Lecture Hall
Zoom Link: <https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>
Meeting ID: 880 9276 6911
Passcode: 232322