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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS String Seminar

Title : Some results in Double scaled SYK

Speaker : Prithvi Narayan (Indian Institute of Technology Palakkad)

Date : Thursday, 25th May 2023

Time : 11:30 AM (IST)

Abstract : Double scaled SYK (DS-SYK) is a one parameter deformation of the SYK model which is exactly solvable at all energies. It turns out that DS-SYK is a q -deformation of the Schwarzian which is the low energy limit of the SYK model. I will discuss how the model is solved by combinatorial techniques and describe the emergence of an effective hamiltonian. I will also discuss how this effective hamiltonian can be obtained as a reduction of a particle moving on q -deformed AdS_2 . I will end with some generalizations to models with global symmetries.

Venue : Online & Madhava Lecture Hall (ICTS)

Zoom link: <https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>

Meeting ID: 880 9276 6911

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