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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Seminar

- Title : Aspects of the $TT\bar{b}$ deformation
- Speaker : Shouvik Datta, University of California, Los Angeles
- Date : Thursday, 21 March, 2019
- Time : 4:00 PM
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : A new class of solvable irrelevant deformations of 2d QFTs have been uncovered recently. In this talk, I shall discuss modular properties of the deformed theories. This deformation can be reverse engineered by simply imposing modular invariance and a one-to-one map between the spectra of the deformed and undeformed theories. The deformed CFTs (also in higher dimensions) have been proposed to be dual to gravity on AdS with a finite cut-off. As a verification of this proposal, we shall show how sphere partition functions of the deformed theories agree non-perturbatively with holographic computations.