



ICTS Seminar

Title : Parity and the Modular Bootstrap

Speaker: Tarek Anous, University of British Columbia, Canada

Date : Monday, 24 December 2018

Time : 2:30 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract: We consider unitary, modular invariant, two-dimensional CFTs

which are invariant under spatial parity flips. Applying parity and

modular inversion symmetry to the partition function leads

to a continuous family of fixed points of this transformation. We use

this fixed locus to prove aconjecture of Hartman, Keller, and Stoica

that the free energy of a large-c 2d CFT with a suitably sparse low-

lying spectrum matches that of AdS3 gravity at all temperatures and

all angular potentials. We also use the fixed locus to generalize the

modular bootstrap equations, obtaining novel constraints on the

operator spectrum.

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