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Department of Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Quasi-Characters and Classification of Non-Rigid 2d CFT's
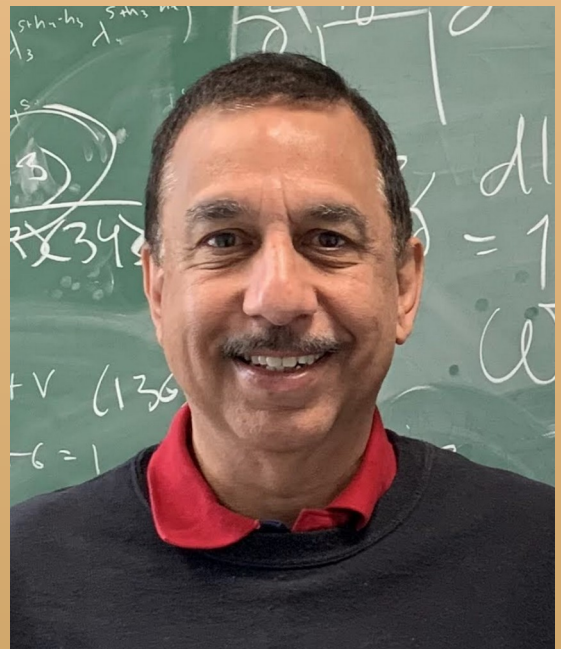
(Hybid Seminar : A-304 & Zoom)

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Date: June 20, 2022

Time: 11 AM IST

Venue: DTP seminar room (A-304).

Zoom link shall be shared separately

The classification of 2d CFT has gained considerable impetus in recent years with two major results: quasi-characters and the novel coset construction. The former gives a complete classification of all pairs of admissible vector-valued modular forms of rank two (arXiv:1810.09472). These give candidate CFT partition functions, but not all of them correspond to actual CFT's. The coset construction (arXiv:1602.01022) then provides a concrete way to decide which of them are indeed CFT's. After reviewing these developments I will discuss ongoing work on a complete classification of all CFT's with two characters and $c < 25$..