



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

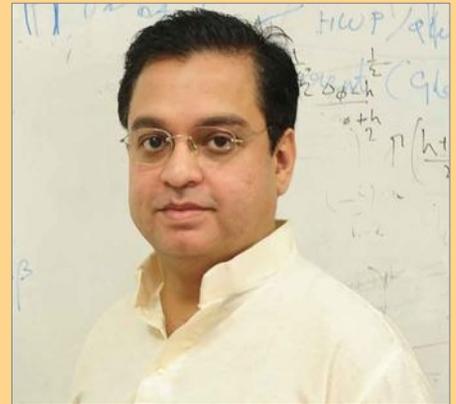
Conformal bootstrap using unitary blocks

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(Duration and Location are subject to irreducible jitter)

Modern methods in conformal bootstrap have led to the most accurate numerical estimate of certain critical exponents of the 3d Ising model. Analytic results, however, are few. For instance, modern methods are unable to produce the anomalous dimension of ϕ^2 at the Wilson-Fisher point. I will re-visit and extend Polyakov's seminal 1973 work which uses a different set of building blocks and which can produce the ϵ^2 anomalous dimension of all (including arbitrary spin) double field operators in this theory analytically.