



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Scattering amplitudes, bootstrap, and supersymmetric localization

Silviu Pufu
(Princeton University, USA)

Date : 21st January, 2019

Time : 11.30 am

Venue: A-304, TIFR



In this talk, I will connect three topics: supersymmetric localization, bootstrap, and scattering amplitudes in string theory and M-theory. In particular, I will explain how one can rederive the first few terms in the small momentum expansion of string theory and M-theory graviton scattering from CFT results. I will also explain how our knowledge of closed string scattering amplitudes and supersymmetric localization can be combined to give new results for the 4-point function of conformal primary operators in 4d $N=4$ super-Yang-Mills theory and in ABJM theory at strong coupling.