

David Poland: Bootstrapping the Stress-Energy Tensor

Tuesday 16 May 2017 16:00 (1 hour)

I will discuss recent progress at extending the conformal bootstrap to 4-point functions containing the stress-energy tensor. This progress includes deriving analytical sum rules for the coefficients in stress-tensor 2-point and 3-point functions, and producing numerical bounds on these coefficients for various gaps in the spectrum. All of these constraints can be interpreted holographically as highly nontrivial restrictions on the properties of bulk gravity in AdS.