

Gong Show and Poster Presentation

Speaker: Matthew Dodelson, Postdoc at Kavli IPMU

Title: High energy behavior of Mellin amplitudes

Abstract: I will describe work with Ooguri on Mellin amplitudes at high energies. The Mellin amplitude in a conformal theory is like the scattering amplitude in a massive theory. Just like for scattering amplitudes, we can derive bounds on the Mellin amplitude at high energies in CFT. The bound is on the $(d+2)$ -point function in d dimensions, and arises from the requirement that there are no spurious singularities in position space.