TEP Seminar

Tuesday, February 10th @ 2pm
Schwinger Lounge

"Spectrum completeness from dispersion relations"

Michele Tarquini (Caltech)

Abstract: In this talk, I will explore constraints imposed by gravity on the spectrum of particles charged under a global or gauge symmetry. By analyzing dispersion relations for four-point scattering amplitudes, and assuming a tree level UV completion, I will show that these constraints imply a form of spectral completeness for the charged states in a wide class of non-abelian symmetry groups.