Contribution ID: **18**   Type: **not specified**

Bootstrapping photon scattering in 3+1d*

Friday, 3 June 2022 14:00 (1 hour)

The S-matrix bootstrap is a program where one uses the general principles of analyticity, crossing symmetry and unitarity of scattering amplitudes to study the allowed space of quantum field theories. In this talk I will consider the two photon to two photon scattering amplitude and explain how we can use numerical S-matrix bootstrap methods to derive non-perturbative bounds on Wilson coefficients in the low energy effective field theory expansion of photons.

Presenter: HEBBAR, Aditya (École Polytechnique)