

## THE QUANTUM SPACETIME SEMINAR SERIES

## Nonperturbative Mellin Amplitudes: Existence, Properties, Applications (Zoom Seminar)

João Penedones (EPFL)

Date: June 01, 2020

Time: 2:30 PM IST

Zoom link shall be shared separately



I will argue that nonperturbative CFT correlation functions admit a Mellin amplitude representation. I will discuss the main properties of Mellin amplitudes: subtractions, analyticity, unitarity, Polyakov conditions and polynomial boundedness at infinity. These can be used to write dispersion relations for Mellin amplitudes. Combining crossing, dispersion relations and Polyakov conditions I will write down a set of (extremal) functionals that act on the OPE data.