Contribution ID: **29**   Type: **not specified**

Differential Equations for Cosmological Correlators

Thursday 20 April 2023 10:00 (1 hour)

I will describe a geometric picture for cosmological perturbation theory. Through this geometry, we can determine differential equations satisfied by these correlators, as functions of their momenta. In this "holographic" picture, cosmological time evolution is encoded in a sort of Hamiltonian (a flat connection) in kinematic space. I will also show how to move away from the highly symmetric de Sitter arena, adding a twist which describes cosmological correlation functions for power-law FLRW cosmologies.

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