Contribution ID: **22** Type: **not specified**

Relativistic matter bispectrum of cosmic structures on the light cone

Thursday, 4 May 2023 18:10 (20 minutes)

Upcoming surveys of cosmic structures will probe scales ranging from the nonlinear regime to scales close to the cosmological horizon. This opens up the possibility of probing the LCDM model, as well as early universe scenarios, with non-Gaussianity. Modeling the galaxy bispectrum is challenging, as it involves general relativity, radiation, and large nonlinearities. In this talk, I will present a numerical modeling of the matter bispectrum on the light cone including relativistic and radiation effects. This is a crucial step towards modeling the observable bispectra, i.e. the weak lensing bispectrum and the galaxy bispectrum.

Primary author: MONTANDON, Thomas (University of Vienna)

Presenter: MONTANDON, Thomas (University of Vienna)

Session Classification: Late Universe