

## Phenomenology 2023 Symposium



Contribution ID: 223

Type: **not specified**

# Neutrino Long-Range Self-Interaction and its impact on Cosmic Structure Formation

*Monday 8 May 2023 15:00 (15 minutes)*

In the late universe, the massive cosmic neutrino background alters the growth of structure, providing a unique opportunity to study physics beyond the standard model. In this talk, I will show that neutrinos with long-range self-interaction can significantly affect late-time cosmological observables, with coupling strengths a few orders of magnitude stronger than gravity.

**Primary author:** LUO, Xuheng

**Presenter:** LUO, Xuheng

**Session Classification:** BSM XIII

**Track Classification:** BSM