Contribution ID: **35** Type: **Theme 3: mathematics of NL geometries**

Equivalence principle, de-Sitter space, and twistor theory

Thursday 1 May 2025 10:00 (1 hour)

I discuss the impact of the positive cosmological constant on the interplay between the equivalence principle in general relativity, and the rules of quantum mechanics. There is an ambiguity in the definition of a phase of a wave function measured by inertial and accelerating observers which is a non-relativistic analogue of the Unruh effect. This will be put in the framework of a non—relativistic limit of twistor space

Presenter: DUNAJSKI, Maciej

Session Classification: Mathematics of NL geometries: Plenary Talk (Chair: Gerben Oling)