



HARVARD UNIVERSITY  
17 Oxford Street  
Cambridge, MA 02138

# Mathematical Picture Language Seminar



**Tuesday, September 5**

**9:30 a.m. Boston time**

**Jefferson 453**

**Maciej Dunajski**

University of Cambridge

## Equivalence principle, de-Sitter space, and twistor theory

**Abstract:** 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.



**Zoom QR Code & Link:**

<https://harvard.zoom.us/j/779283357?pwd=MitXVm1pYUIJVzZqT3lwV2pCT1ZUQTog>

**<https://mathpicture.fas.harvard.edu/seminar>**