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## Positivity in Research & in the Sky

*Wednesday, 18 December 2024 15:10 (1 hour)*

I will discuss the subtle interplay between the behaviour of gravity as we observe it in our “everyday experiments”, and its embedding within an ultimate high energy completion. In particular, I will emphasize how the notion of causality is manifested with gravity, a consideration which is particularly relevant for putting constraints on the physical theories we use to describe observations and make future predictions. By considering low-energy processes including effects from Standard Model particles, I will also argue how we can get an insight on some properties of physics at high energy, well beyond what is accessible with current and future observations and experiments.

**Presenter:** Prof. DE RHAM, Claudia (Imperial College London)

**Session Classification:** Plenary Speaker