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## Gravitational Wave Decay into Dark Energy

*Thursday 25 October 2018 15:30 (30 minutes)*

In this talk I will discuss the decay of gravitational waves into dark energy fluctuations, made possible by the spontaneous breaking of Lorentz invariance due to dark energy. For some operators of the EFT of Dark Energy (or Horndeski/beyond Horndeski theories) this decay process is large. Hence, recent observations rule out such couplings. This constraint, together with the requirement that gravitational waves travel at the speed of light, rules out all quartic and quintic GLPV theories.

**Presenter:** Mr TAMBALO, Giovanni (SISSA)

**Session Classification:** Afternoon session