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## Dark energy, modified gravity in light of LIGO

*Tuesday, 22 January 2019 16:45 (45 minutes)*

I will review the problem of the acceleration of the expansion of the universe at late times and discuss how models of modifications of gravity can provide an alternative mechanism to the cosmological constant. I will discuss the space of models, how to best think about the generic effects these models have on structure formation and therefore how they can be constrained through observations. Finally, I will touch on the connection between cosmology, modified gravity and the predictions for gravitational waves and how the measurement of their speed has severely reduced the theory space.

**Presenter:** Prof. SAWICKI, Ignacy (Institute of Physics, Czech Academy of Sciences)

**Session Classification:** GWs, CMB, LLS...