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## Cosmological reconstruction of gravity

*Monday, 5 July 2021 16:30 (20 minutes)*

We use the CMB, BAO, SN and galaxy weak lensing data to jointly reconstruct the effective dark energy density and the two phenomenological functions ( $\mu$  and  $\Sigma$ ) describing possible modified gravity effects in the evolution of large scale structure. I will focus on the dependence of such reconstructions on the underlying assumptions (priors) and their implications for dark energy and modified gravity theories.

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**Session Classification:** Dark Energy and the Accelerating Universe

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