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Dark energy with non-adiabatic sound speed

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I will describe the prospects of detecting dark energy perturbations from Planck and a LSST-like survey. I will also discuss the initial conditions for dark energy perturbations in the radiation and matter epochs, generalizing the usual adiabatic ones to include the sound speed effect.

Primary authors: Dr BALLESTEROS, Guillermo (University of Padova); Dr LESGOURGUES, Julien (CERN and EPFL (Lausanne))

Presenter: Dr BALLESTEROS, Guillermo (University of Padova)

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