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Reconstructing Dark Energy

The problems with the stantard model of cosmology ΛCDM are well-known, such as the origin and behaviour of Dark Matter and Dark Energy or some tensions with the inferred value of some parameters when using distinct data sets, and several solutions have been proposed. One approach to try and elucidate the nature of the Dark Energy and relieve the parameter tensions is through reconstructions, both parametric and model-independent. In this talk we will discuss some of these reconstructions, their advantages and disadvantages and some statistical tools to perform model selection when comparing the reconstructions with the standard model.

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