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Cosmological tests of Einstein and Euler

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The late-time modifications of the Λ CDM model can be parametrized by three functions describing the expansion history and gravitational effects on light and matter in the Large Scale Structure. I will discuss what we learned from the first joint Bayesian reconstruction of these three functions from recent cosmological observations, particularly, the implications for modified gravity theories and the well-known cosmological tensions. I will also address the challenge of distinguishing between a modification of gravity (i.e. a modified Einstein equation) from a dark sector interaction (i.e. a modified Euler equation).

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