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Quintessence models in the late Universe

Scalar-tensor theories have shown great potential in inducing tailored modifications compared to cosmic evolution in the ΛCDM model. We reconsider quintessence models in this work in the context of three driving potentials. We center the action of these models in the late Universe which leaves early ΛCDM cosmology unchanged. The effects show the potential of producing a faster expanding cosmology with a high Hubble constant. The models are constrained using the cosmic chronometer
data, Pantheon plus, and transversal baryonic acoustic oscillation data.

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