

Can intermediate time scales modified gravity theories solve the s_8 and H_0 tensions ?

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Most of the attempts to reconcile the s_8 and H_0 tensions are focusing on extensions to Λ CDM that can be considered as either late or early times modifications of general relativity with limited success as to be able to evade constraints from local and deep probes at once. In this work we focus on models that rather act in the intermediate redshifts to try to escape constraints from the current cosmological common observables in early and late times. Using MGCLASS II we shall examine which parameterisations, within the above conditions, could succeed in alleviating the tensions and to which cost in terms of model fitting with respect to Λ CDM.

Presenter: Dr SAKR, Ziad (IRAP Toulouse)