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Early Dark Energy models

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In this work, we present two models to describe early dark energy, with a non-negligible contribution in the radiation-domination epoch. Such type of early contributions to the Hubble parameter is extremely promising to tackle the ongoing Hubble tension. With this motivation, we explore the redshift evolution of their state equations and evaluate the best fits for the models' free parameters, with different cosmological datasets and samplers. We extensively discuss the feasibility of these models and foreseeable proxies that they can be submitted through the cosmological history of the Universe.

Primary author: Dr GARCÍA, Luz Ángela (Universidad ECCI)

Co-author: Dr CASTAÑEDA, Leonardo (Universidad Nacional de Colombia)

Presenter: Dr GARCÍA, Luz Ángela (Universidad ECCI)

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