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Dr. BROUZAKIS, Nikolaos (IFAE Barcelona): Non-linear Matter Spectrum for a Variable Equation of State

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We study the growth of matter perturbations beyond the linear level in cosmologies in which the dark energy has a variable equation of state. The non-linear corrections result in shifts in the positions of the maximum, minima and nodes of the spectrum within the range of Baryon Acoustic Oscillations. These can be used in order to distinguish theories with different late-time variability of the equation of state.

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