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Exploring the early universe with the stochastic background of induced gravitational waves

Tuesday, November 17, 2020 3:00 PM (1 hour)

I will discuss the current status of the secondary gravitational waves induced by the curvature perturbation and why they might be an important source of the cosmological stochastic gravitational wave background. As a practical example, I will use the latest NANOGrav results on the stochastic background of nanohertz gravitational waves to constrain the equation of state parameter of the early universe and the mass of the associated primordial black holes.

Presenter: Dr DOMENECH, Guillem (Padova)