Emmanuel Frion: Stochastic Collapse

lundi 9 novembre 2020 16:45 (45 minutes)

In this talk, I will present the consequences of applying the stochastic formalism to cosmological models described by a scalar field with an exponential potential. In particular we show that quantum field fluctuations perturb the equation of state on large scales which can lead to a quantum instability of the classical collapse solution below the Planck scale in the case of a pressureless collapse.