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Cristiano Germani : Universal threshold and non-linear PBHs statistics

Wednesday, 4 December 2019 13:50 (45 minutes)

Abs: In the first part of this talk I will show that the threshold for PBHs formation, in a radiation dominated universe, can be analytically given by the use of a universal formula for the averaged compaction function. In the second part, I will present the full non-linear statistics of PBH abundance related to Gaussian curvature perturbations.