

Gabriele Franciolini (CERN) - "Primordial black holes from inflation: recent developments and GW observations"

Thursday, 21 December 2023 15:30 (40 minutes)

Primordial black holes (PBHs) might have formed in the early universe from enhanced curvature perturbations at small scales and could comprise a significant fraction of the dark matter. I will report some recent progress in the computation of their abundance, including the impact of non-Gaussianities and a reverse engineer approach to connect fundamental late-time observables to consistent inflationary dynamics. Finally, I will discuss some promising gravitational wave probes of these scenarios.