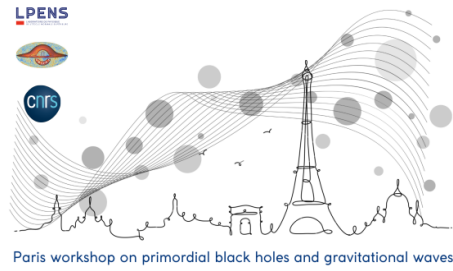


Paris workshop on primordial black holes and gravitational waves



Contribution ID: 15

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Peaks in the power spectrum and Loops

Monday, 27 November 2023 17:05 (20 minutes)

How small-scale enhanced scalar fluctuations influence large scales, for instance, the one probed by the CMB, has recently been the object of an intense debate. In this context, I will first show that one-loop corrections to the large-scale power spectrum from small-scale modes in non-slow-roll dynamics are always negligible, namely they are volume suppressed by the ratio of the short to long distance scales.

I will then discuss ways to have resonant IR cascades, namely cases where loop corrections can be significant in the near infrared.

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