## 12th LISA CosWG Workshop



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## PBHs and SIGW: The importance of non-gaussianities

Tuesday 3 June 2025 14:30 (20 minutes)

We briefly describe an exact formalism, based on the threshold statistics on the compaction function, for the computation of the abundance of primordial black holes in the presence of local non-Gaussianity (NGs) in the curvature perturbation field with a completely generic functional form. As NGs modify the amplitude of perturbations necessary to produce a given PBH abundance, modeling these effects is crucial to connect the PBH scenario to its signatures at current and future GW experiments.

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