

Impact of LIGO-Virgo binaries on gravitational wave background searches

The merger rate of $\mathcal{O}(10M_{\odot})$ black holes inferred from the LIGO-Virgo observations indicates that these binaries generate a sizeable gravitational wave foreground. In this talk I will present a simple analysis quantifying the impact of this foreground on the detectability of the primordial gravitational wave background by future gravitational wave experiments.

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