

# Impact of LIGO-Virgo binaries on gravitational wave background searches

*mercredi 8 décembre 2021 18:40 (10 minutes)*

The merger rate of  $\approx(10^{10})$  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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**Classification de Session:** LISA CosWG Workshop day 1