

Cosmological Inference with Gravitational Waves and Euclid Galaxy Surveys

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We present a preliminary study of cosmology with gravitational waves from LIGO–Virgo–KAGRA using the most recent Euclid catalogs. By cross-matching the latest gravitational-wave event catalog with Euclid data, we identified five candidate events with significant spatial overlap. These cases are currently under investigation within the framework of a dedicated Euclid collaboration project. Our results represent an initial step toward establishing Euclid as a key resource for dark siren analyses in gravitational-wave cosmology.

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