

Second Gravi-Gamma Workshop



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Recent results from LIGO and Virgo searches of continuous gravitational waves

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Continuous gravitational waves (CWs) have not been detected so far, but their emission is expected from various astrophysical systems, like spinning neutron stars, if asymmetric with respect to their rotation axis, and clouds of ultra-light bosons that could form around Kerr black holes as a consequence of superradiance. In this talk I will report some of the most recent results obtained in the search of CWs using the data of LIGO and Virgo detectors, stressing the benefits of a multi-messenger approach, when feasible. Prospects for future runs will be also discussed.

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Session Classification: Multi-messenger science potential with current detectors