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Gravitational wave sources in the low frequency region and their distances

Tuesday, 24 May 2022 13:30 (2 hours)

Pulsars are expected to be strong sources of low frequency gravitational waves in ground based interferometers. The knowledge of their distances is a key parameter to estimate the gravitational emission. The pulsar distances are usually estimated using dispersion measure. The Gaia data release provides information on the distance, kinematic and photometric properties of nearly two billions astronomical sources, among them some pulsars and accreting neutron star systems.
The Gaia based distances of some systems relevant for gravitational astronomy will be discussed.

Primary author: Prof. POGGIANI, Rosa (University of Pisa)

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