Sixteenth Marcel Grossmann Meeting



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The detectability of long-duration gravitational wave signals

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Spinning neutron stars are sources of long-duration continuous waves that may be detected by interferometric detectors. We focus on long, but not infinite duration signals and derive the precise signal-to-noise ratio (SNR) when the duration is not a priori known. We illustrate the effect of gaps in the data on the SNR.

Primary authors: FESIK, Liudmila (MPI for Gravitational Physics, Germany); Dr PAPA, Maria Alessandra

Presenter: FESIK, Liudmila (MPI for Gravitational Physics, Germany)

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