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Searches for continuous gravitational waves from rotating neutron stars

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Rapidly rotating neutron stars, isolated or in binary systems, are potential sources of continuous gravitational waves for the LIGO and Virgo observatories. Searches for continuous gravitational waves include targeted searches, where the location and frequency of the source are known, directed searches, where the frequency of the signal is unknown, and all-sky searches for unknown neutron stars. In this talk, I highlight a selection of recent results from searches for continuous gravitational waves.

¹on behalf of the LIGO Scientific Collaboration and the Virgo Collaboration