

# Detectability of continuous gravitational waves with future interferometers

*Wednesday, 12 July 2023 18:10 (20 minutes)*

Detection of continuous waves will open a new frontier in multi-messenger astronomy. I summarize detection prospects for the four main scenarios - pulsar searches, Sco X-1 type directed searches, Cas A type directed searches, and all sky surveys. I include developments in gravitational wave interferometry from now to Einstein Telescope and Cosmic Explorer, and contemporary electromagnetic observatories such as the Square Kilometre Array.

**Primary author:** OWEN, Benjamin (Texas Tech University)

**Presenter:** OWEN, Benjamin (Texas Tech University)

**Session Classification:** Future GW detectors