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## Rapid Gravitational Wave Discovery and Early Warnings

*Thursday, 4 November 2021 09:40 (20 minutes)*

Multi-messenger observations of the merger of two compact objects will help probe astrophysics at extreme conditions. In this talk, I will discuss the on-going technology development for rapid online gravitational wave (GW) detection, localization and mass parameter estimation, with a focus on pre-merger GW early warnings of binary coalescences. I will also discuss the prospects of multi-messenger observations of early radiation associated with binary merger involving at least one neutron star.

**Presenter:** WEN, Linqing (UWA, Perth, Australia)

**Session Classification:** Gravitational waves and multi messenger astronomy: chair M. Giroletti