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Type: **Invited Talk**

LIGO-Virgo-KAGRA gravitational-wave sources and observational results

Monday, 16 September 2024 09:00 (55 minutes)

The talk will summarise main observational results obtained by the current network of gravitational wave detectors, including the ongoing O4 run which started May 2023. First half of O4 - O4a - ended January 2024, providing 81 new high-confidence gravitational wave candidates. I will also discuss challenges and outlook related to searches for transient signals emitted by tight binaries composed of compact objects, other transient signals, such as supernovae, as well as long-duration (persistent) signals, and their diverse astrophysics.

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