



Contribution ID: 153

Type: **Regular plenary talk**

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

*Friday, 21 February 2025 10:00 (20 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 part 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, as well as long-duration (persistent) signals, and their diverse astrophysics.

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**Session Classification:** Gravitational Waves

**Track Classification:** Gravitational Waves