

LSC-Virgo-KAGRA Burst sources science group (June 2023)

Chairs: Ryan Fisher (L), Kazuhiro Hayama (K), Jade Powell (L), Florent Robinet (V)

All-sky unmodeled (short)

Ik Siong Heng (L)
Edoardo Milotti (V)

- Offline searches
- Low-latency searches
- Waveform reconstruction

All-sky unmodeled (long)

Adrian Macquet (V)

- Offline searches
- Waveform reconstruction

Binary black holes (BBH)

Imre Bartos (L)

- Eccentric BBHs
- Intermediate-mass BBHs
- BHs hyperbolic encounters
- Population studies

With CBC all-sky

Francesco Salemi (V)

- BBH unmodeled searches
- Transient catalogs
- Waveform reconstruction

Supernovae

Marie-Anne Bizouard (V)

- Targeted searches
- All-sky searches
- Waveform models & simulations
- Low-energy neutrinos

GRB/FRB/Magnetar

Raymond Frey (L)
Ryan Fisher (L)
Barbara Patricelli (V)

- Targeted and multimessenger searches (offline & low-latency)
- Population studies

Cosmological sources

Daichi Tsuna (K)

- Cosmic strings models
- Offline searches
- Parameter constraints

High-energy neutrinos

Zsuzsanna Marka (L)

- Low-latency searches
- Multimessenger searches

Pipeline support and R&D

BayesWave: Meg Millhouse
CocoA: Alessandra Corsi
CosmicStrings: Daichi Tsuna

cWB: Sergei Klimenko
LLAMA: Zsuzsanna Marka
MLy: Vassilis Skliris

MuLaSEcC: Soma Mukherjee
oLIB: Ethan Marx
pySTAMPAS: Adrian Macquet

RAVEN: Brandon Piotrkowski
X-pipeline: Patrick Sutton

Liaisons

DetChar: Amber Stuver (L) / Marco Drago (V)
Low-latency: Robert Coyne (L), Marek Szczepanczyk (L)

Calibration: Dripta Bhattacharjee (L)
Computing: Rhys Poulton (V)

Review

Alessandra Corsi (L)
Francesco Pannarale (V)

Joint with CBC

Joint with Stochastic