

LSC-Virgo-KAGRA Burst sources science group (2021)

Chairs: Marco Cavaglia (L), Jade Powell (L), Florent Robinet (V), Kazuhiro Hayama (K)

All-sky unmodeled (short)

Giovanni Prodi (V)
Marek Szczepanczyk (L)

- Offline searches
- Low-latency searches
- Waveform reconstruction

All-sky unmodeled (long)

Michael Coughlin (L)
Adrian Macquet (V)

- Offline searches
- Waveform reconstruction

Binary black holes (BBH)

Gayathri V (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)
Francesco Pannarale (V)

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

High-energy neutrinos

Zsuzsanna Marka (L)

- Low-latency searches
- Multimessenger searches

Cosmological sources

Daichi Tsuna (K)

- Cosmic strings models
- Offline searches
- Parameter constraints

Pipeline support and R&D

BayesWave: Bence Becsy, 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: Ryan Fisher (L), Marek Szczepanczyk (L)

Calibration: Sudarshan Karki (L)

Computing: James Clark (L)

Review

Alessandra Corsi (L)

Francesco Pannarale (V)

Joint with CBC

Joint with Stochastic