

# 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

## Multimessenger Transient searches

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

- Targeted and multimessenger searches (offline & low-latency)
- Triggers:
  - Gamma-ray bursts
  - Fast radio bursts
  - Magnetar flares
  - High-energy neutrinos
- Population studies

## Cosmological sources

Daichi Tsuna (K)

- Cosmic strings models
- Domain wall models
- Offline searches
- Parameter constraints



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

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

## Pipeline support and R&D

**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