

# LSC-Virgo-KAGRA Burst sources science group (July 2024)

Chairs: Ryan Fisher (L), Albert Kong (K), Jade Powell (L), Florent Robinet (V)

## All-sky unmodeled (short)

Ik Siang Heng (L)  
Edoardo Milotti (V)

- Offline searches
- Low-latency searches
- Waveform reconstruction

## All-sky unmodeled (long)

Adrian Macquet (V)  
Kiet Pham (L)

- Offline searches
- Waveform reconstruction

## Binary black holes (BBH)

Imre Bartos (L)

- Eccentric BBHs
- Intermediate-mass BBHs
- Hyperbolic encounters of BHs
- Population studies

## CBC-Burst all-sky

Francesco Salemi (V)

- BBH unmodeled searches
- Transient catalogs
- Waveform reconstruction

## Multimessenger transient searches

Raymond Frey (L)  
Matthias Vereecken (L)  
Barbara Patricelli (V)

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

## Supernovae

Marie-Anne Bizouard (V)

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

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

**cWB-2G:** Francesco Salemi  
**cWB-GMM:** Leigh Smith  
**cWB-XP:** Sergey Klimentko

## Pipeline support and R&D

**GWpyxel:** Maxime Fays  
**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