

LSC-Virgo-KAGRA Burst sources science group (August 2024)

Chairs: Ryan Fisher (L), Albert Kong (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)
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 (V)
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

Marco Cavaglia (L)

- 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 Klimenko

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