

What's next in Burst group

Top science priorities for initial ADE:

- All-sky searches using cWB 2G
 - low latency. Virgo participation in the development phase of cWB and on EM follow up
 - offline using cWB 2G. Virgo fully participating . Testing by re-analysis of past observations
- GRB triggered searches using X-pipeline
 - In-time analysis yet to be designed
 - Offline analysis. Virgo fully participating.

Other main priorities from Virgo side in preparation for ADE:

- Extension of searches to longer duration signals using STAMP
 - GRB triggered
 - All-Sky: recent progresses in computing efficiency
- ER4,5: these are “just “ technical challenges, NO interest in testing astrophysical models or reconstruction capabilities, we do that offline
 - ER4 will be the first stress test of cWB 2G online
 - Dedicated MDC channel with frequent burst injections
- Ideas of Mock Data Challenges for glitch rejection and signal reconstruction
 - based on past data sets

Completion of targeted signal searches over past data led by Virgo burst members

- Cosmic String Cusps: very close to completion
- IPN GRBs triggered search: final round of analysis
- Multimessenger GW-High Energy Neutrinos: ANTARES analysis using cWB close to final, support to ICECUBE analysis using cWB
- Supernovae triggered search: support to cWB analysis