

Panel Discussion Multimessenger And Multiband Astronomy

Panelists:

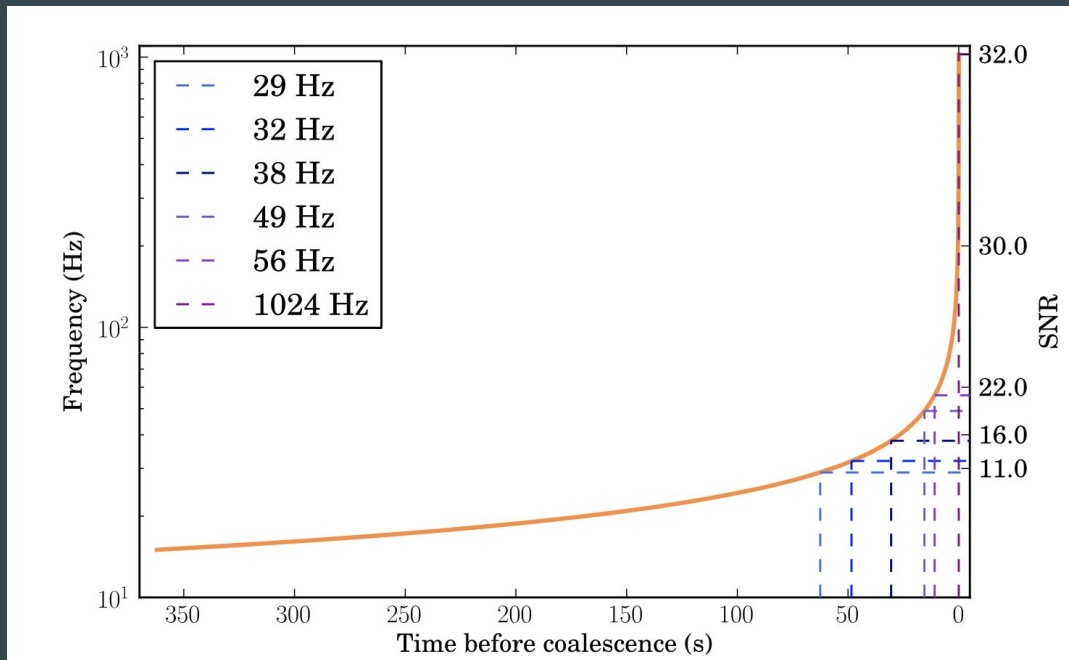
- Amanda C. Baylor
- Kelly Holley-Bockelmann
- Samuele Ronchini
- Aaron Tohuvavohu
- Leo Tsukada (chair)

Online poll



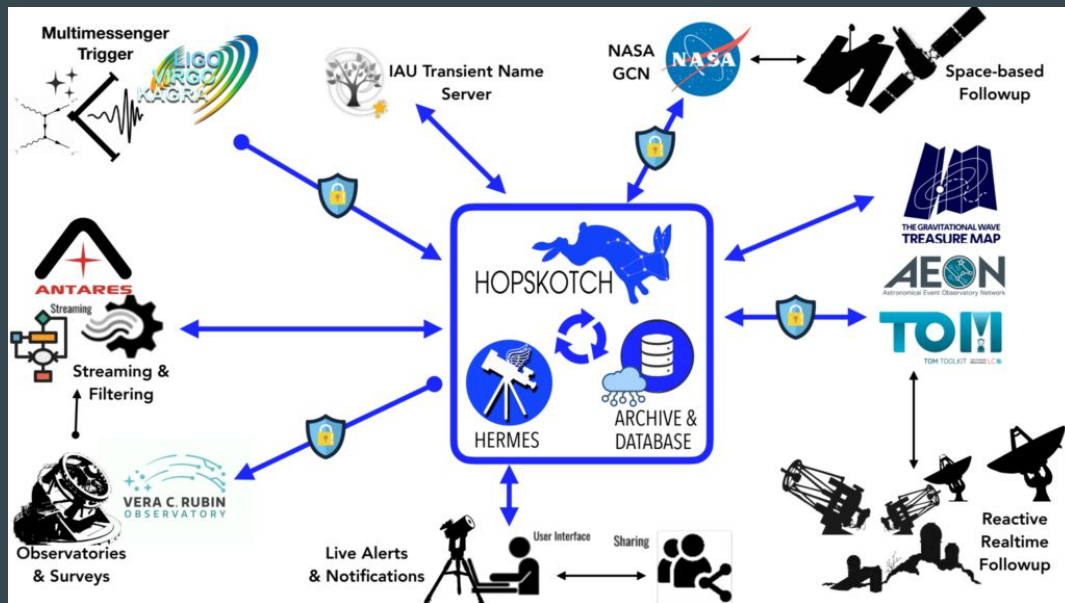
Early Warning efforts in the LVK

- Matched-filter searches using truncated templates
 - GstLAL, MBTA, PyCBC, SPIIR
- If we make an early warning detection, we *must* make a full-bandwidth detection
 - Else the event is retracted

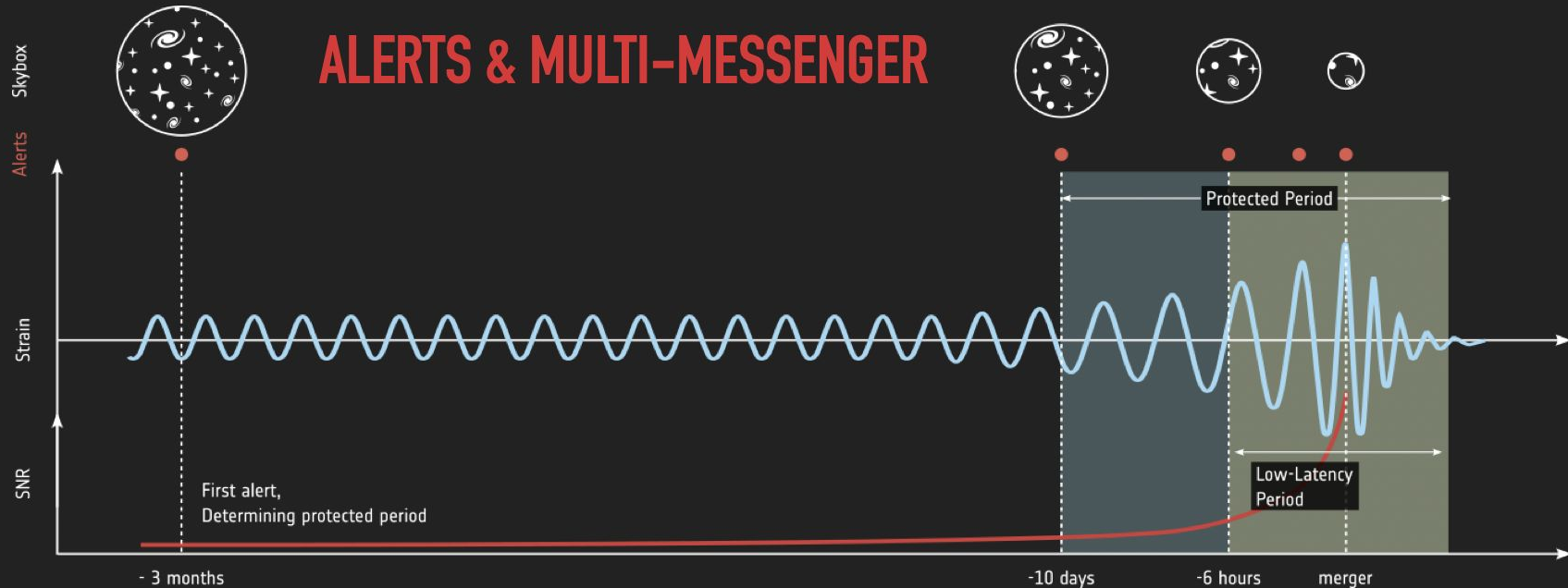


Coordinating with MMA partners

- Low latency
 - Events uploaded to [GraceDB](#)
 - Alerts distributed via [GCN](#) and [SCiMMA](#)
 - Real-time temporal/spatial coincidence by [RAVEN](#)
- High latency
 - GW follow-up searches triggered by GRB and FRB
 - Joint search between GW and Neutrino (Ice Cube, KM3Net)
 - Subthreshold search using spatial correlation across multi-messengers



UIUC NCSA



► Several low-latency alert pipelines in SOC/DDPC

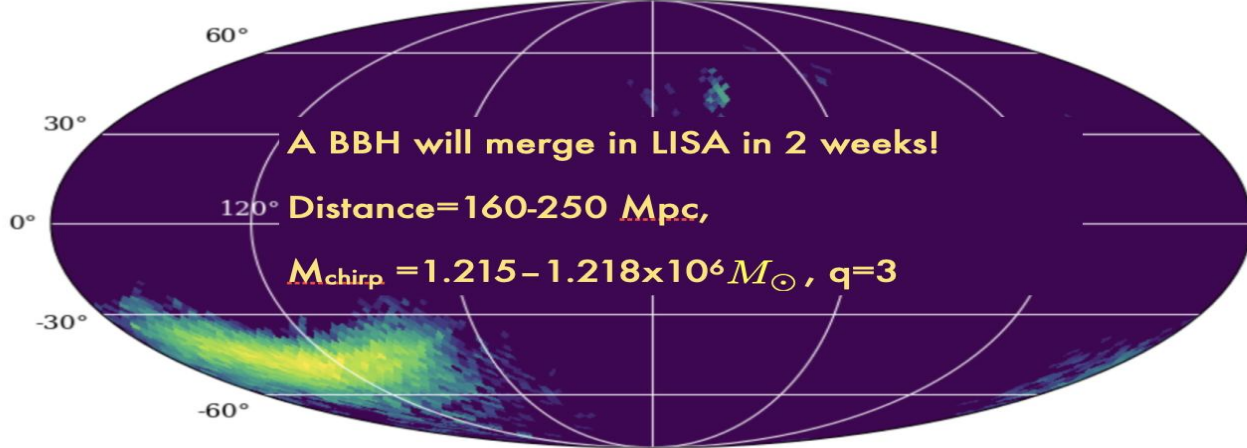
➡ Alerts for new sources

➡ Updates on known transients

► Realtime in 8/24 h of data exchange

► **Protected periods:** uninterrupted data taking

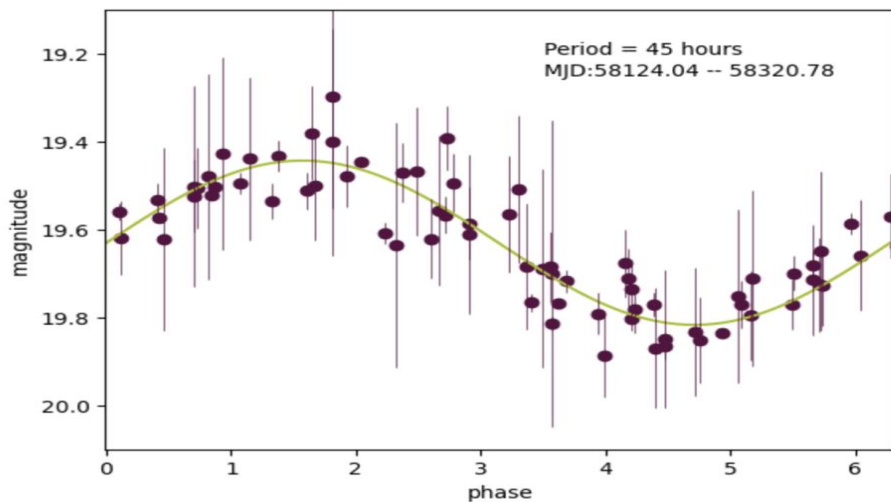
► **Low-latency periods:** quasi-realtime download



The Galaxy!



“ZTF” — in 2020



SDSS, in 2002

