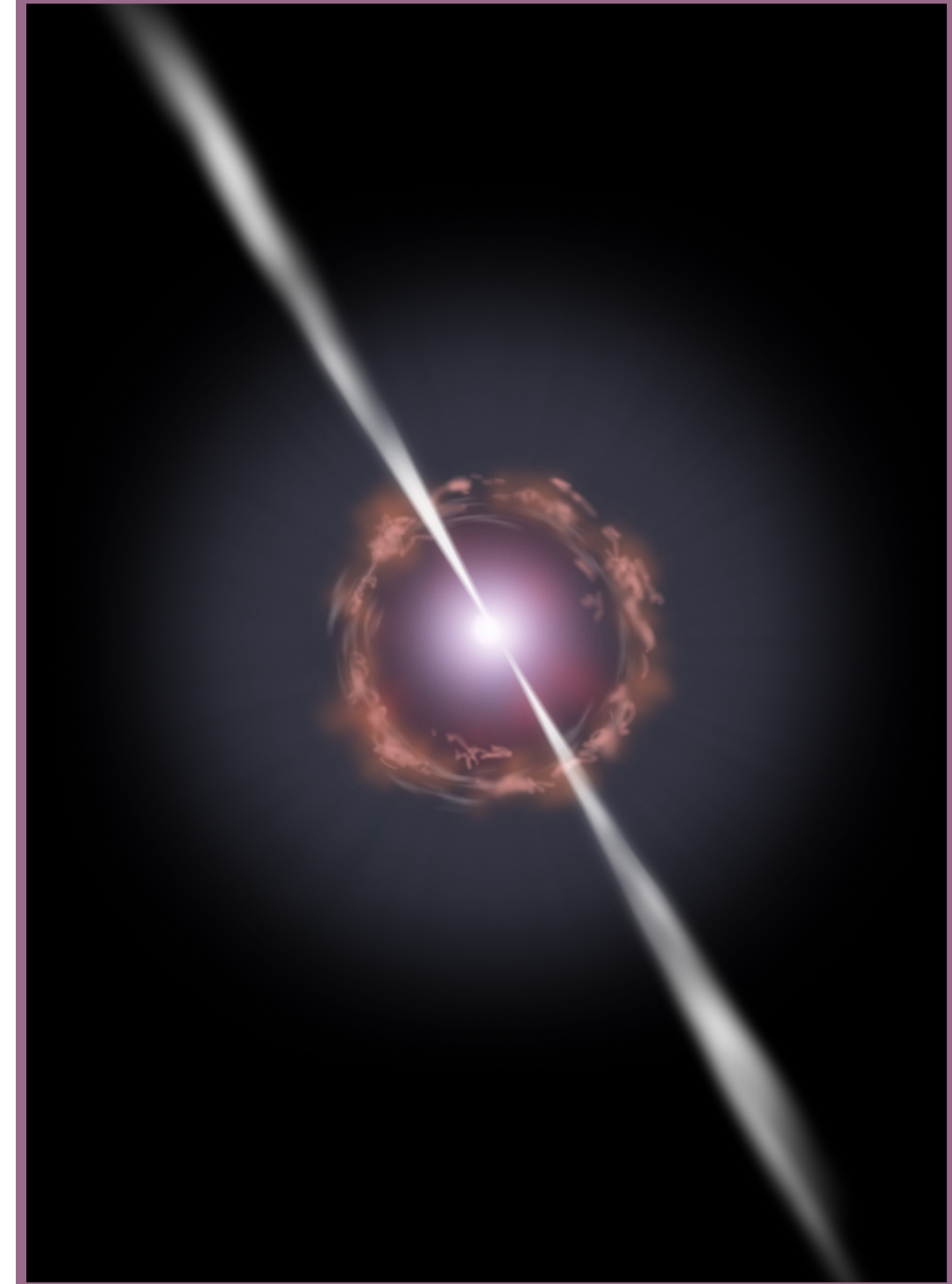


Sources & Transients AWG

Report from Breakout session



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on behalf for the Sources & Transients AWG

Overview

- Attendance: 12 members in person + 6 remote (via zoom)
- Session was led by Joaquin Vieira and Anna Ho
- Discussed goals and strategy for the future and agreed on blueprint for the next year.
- Nice to meet in person for the first time (for many of us), first time in 2+ yrs.

Agenda and Discussion Topics

- Pause & Reflect on organization of WG telecons
- Recap & Feedback from Summer Workshop
- How to engage with the larger astrophysical community?
- What tools and/or capabilities do we need from the project and/or need to develop for our science ?

Future Plans and Road Map 1

Pause & Reflect on organization of WG telecons

- Keep current by-weekly cadence
- Continue format of invite speakers to telecons to advance engagement and investigate science topics. Among the topics we identify we want to further investigate are:
 - Colliding Wind Binaries
 - Planetary Nebulae
 - SDSS V (spectroscopy of AGN)
 - Time-domain surveys at other wavelengths
 - Variable AGN
 - More engagement with ACT and SO

Future Plans and Road Map 2

Recap & Feedback from Summer Workshop

- Very positive outcome
- Good vehicle to increase engagement
- Agreed to organize in-person workshop for Summer 2023 “Astrophysics with CMB-S4, Transients”.
- Place TBD.
- Mixture of invited and contributed talks.

Future Plans and Road Map 3

How to engage with the larger astrophysical community?

- Identify communities we need to engage with:
 - Larger astrophysical community
 - Transient community (MMA, AGN, particular objects)
 - Minority Serving institutions
 - Citizen Scientist (i.e.: Amateur Astronomers)
 - Engaging new people beyond traditional CMB community

Future Plans and Road Map 4

What tools and/or capabilities do we need from the project and/or need to develop for our science ?

- Alerts — alternate transient detection methods (to current Stage 3)
- Alerts — what information should go in. Worth releasing stellar flares?
- Change map-making/detection cadence to ~15min-1hr (from several hours).
- Thumbnail server — How fancy we need to get. Looked at the SPT version as baseline.
- Catalogs (?)