



Transient Advocate Program

He-Yang Liu on behalf of EPSC

Outline

1. Transient Advocate Role

- What are they supposed to do?
- ➤ How do they do these?

2. Transient Advocate Group

- ✓ Call for Transient Advocates
- ✓ Transient Advocate workshop

3. Working plan

"To-Do" list of Transient advocate

Deal with ToO and DDT proposals



Monitor the status of satellite and payloads



Deal with Instrument update requirements



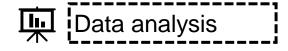
Beidou and VHF alerts

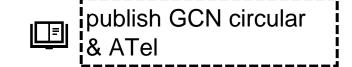


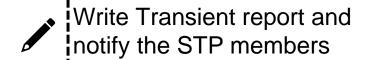
LIGO GCN Notice















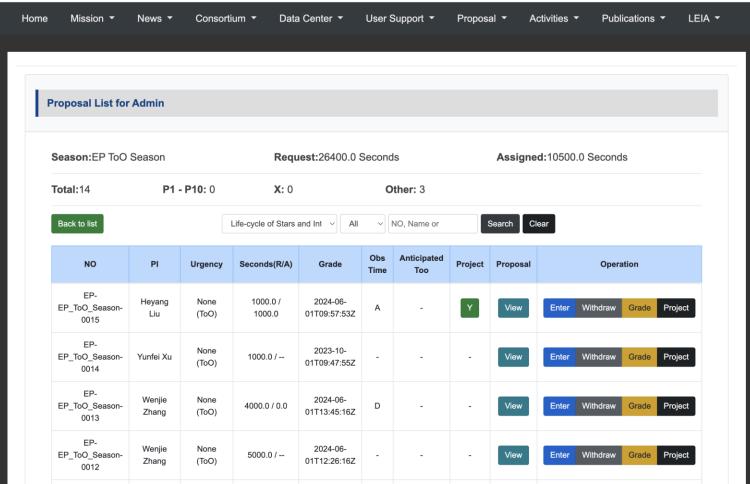


TA tools: proposal system (will open later)









EP Proposal Coverpage

No: EP-Cycle1-0012

Proposal Title:

Anticipated-ToO Observations of X-ray Flares from Galactic Globular Clusters

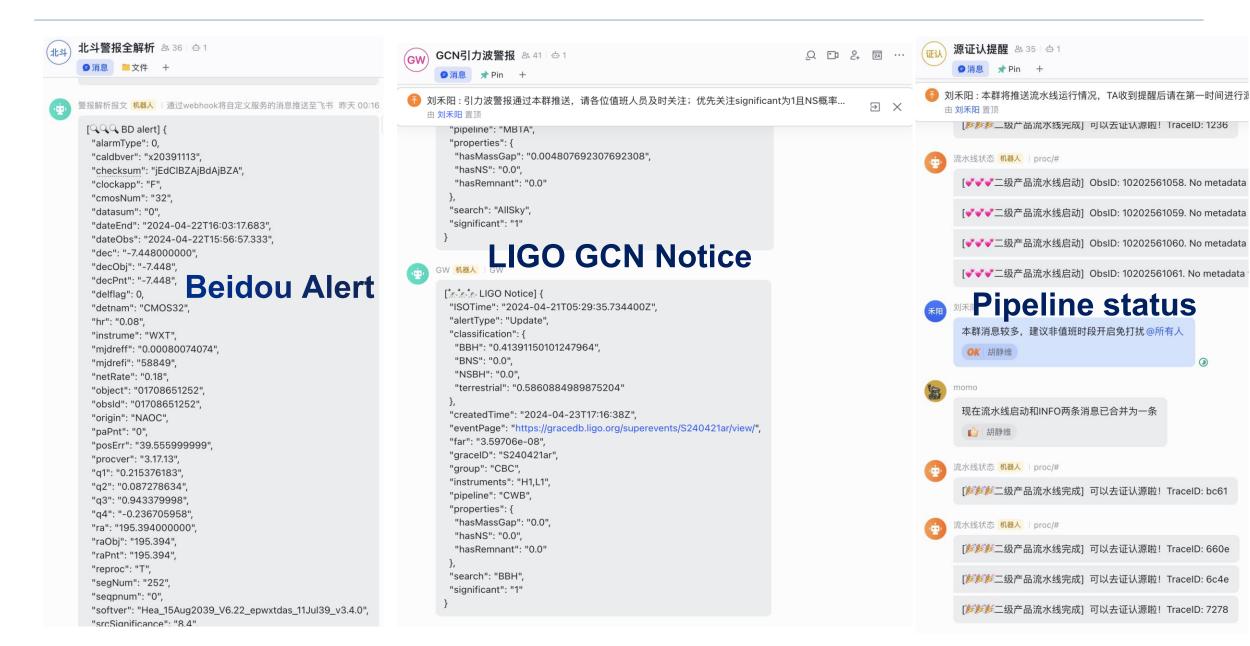
Scientific Category: (tick all that apply)

- ☐ Life-cycle of Stars and Interstellar Medium
- ☐ Galaxies, Groups of Galaxies, Clusters of Galaxies and Superclusters
- Active Galactic Nuclei and Tidal Disruption Events
- ☐ Solar System Objects, Stars and Exoplanets
- ☐ Cosmology, Extragalactic Deep Fields and Large Extragalactic Areas
- ☐ Gravitational Wave Electromagnetic Counterpart
- Other

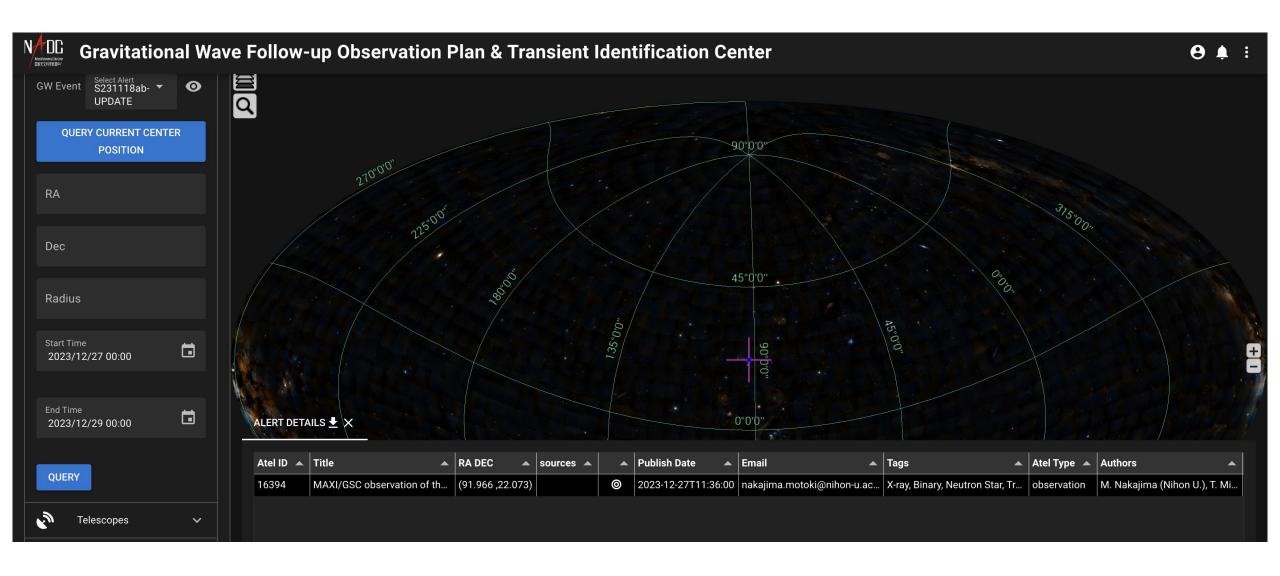
Proposal Abstract:

Globular clusters (GCs) are tightly bound clusters of thousands of stars. They contain various types of X-ray sources, such as X-ray binaries, cataclysmic variables, active main-sequence binaries, and millisecond pulsars. More importantly, both theoretical predictions and computational models suggest that GCs may host intermediate-mass black holes (IMBHs) capable of generating X-ray flares during the accretion process. EP/WXT may observe numerous Galactic GCs during all-sky monitoring, offering the potential to serendipitously detect X-ray flares from GCs. These events merit prompt follow-up observations using EP/FXT to verify their origins. This proposal aims to quickly follow up strong X-ray flares from a sample of Galactic GCs previously detected in X-rays with a deep EP/FXT observations of 20 ks, in the hope of uncovering signatures of IMBHs or the outbursts from other types of X-ray sources.

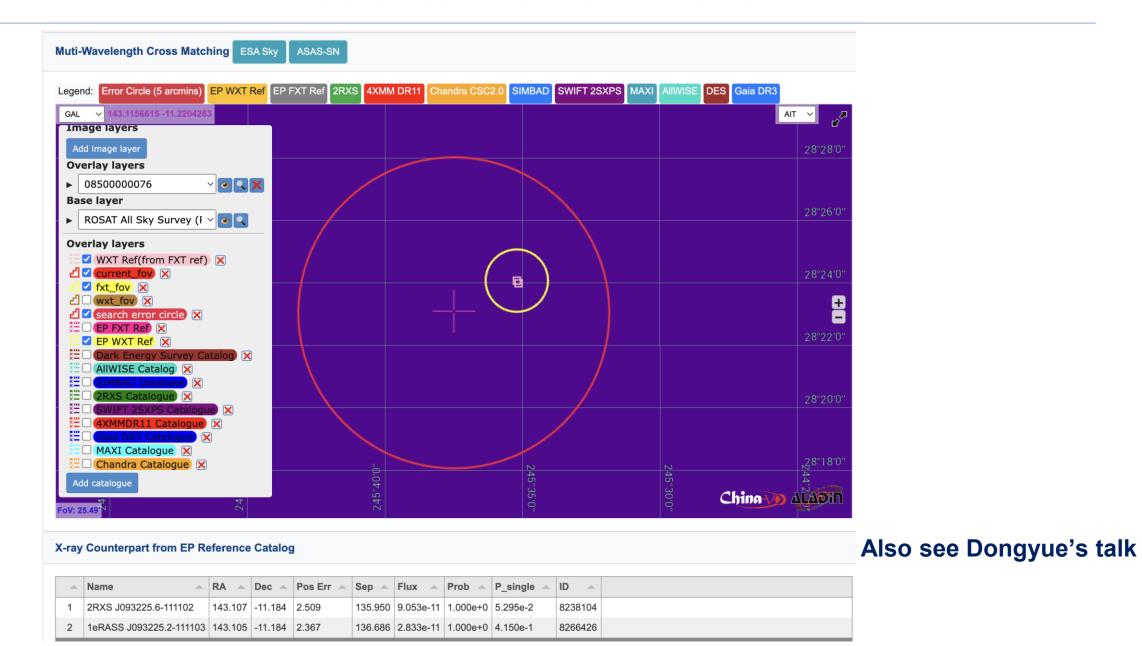
TA tools: Alert Notification



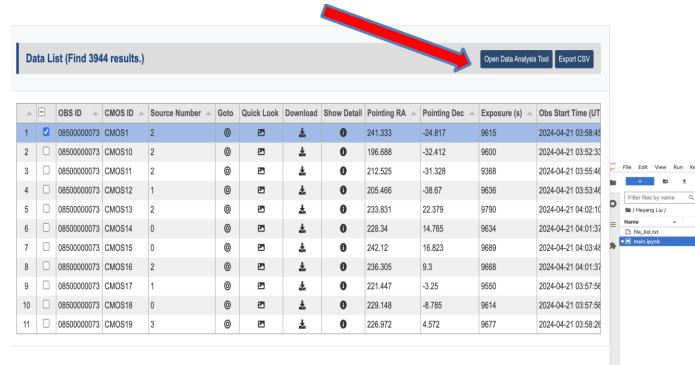
TA tools: generate ToO-MM observation plan



TA tools: source identification

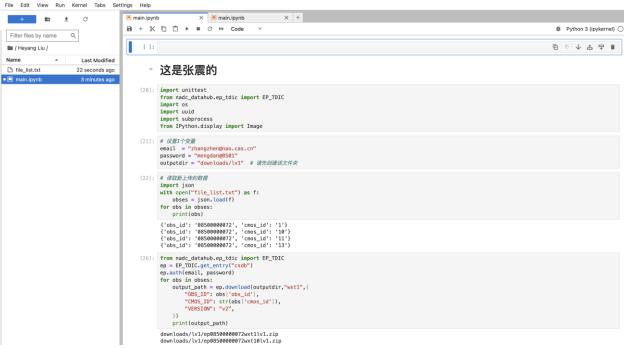


TA tools: Data Analysis online



Also see the talk of Haiwu and Yunfei

analyze the WXT data online without building the environment



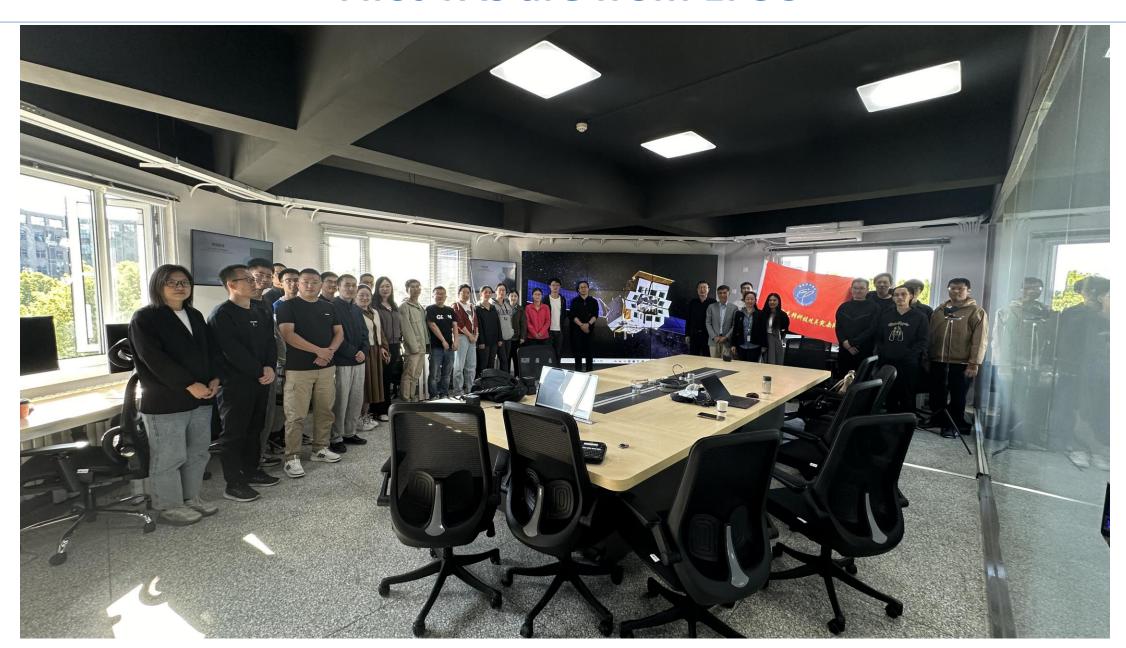
TA management

- ◆ TAs are from EPSC or STPs
- Working in three shifts: 9:00-16:00,16:00-23:00, 23:00-9:00; 2 TAs per shift (2-3 TAs @ 9:00-21:00 during the commissioning phase)
- ◆ Workplace: the operation room at NAOC, on-line in the future

Appointment: The duty schedule per month

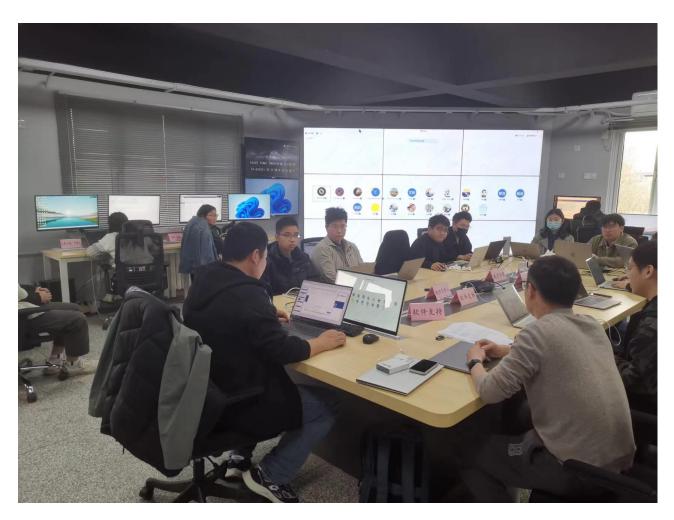
Report the operation at the regular meeting

First TAs are from EPSC



Schedule of TA mission

- 2022.7-2024.1: serving for LEIA as TA
- 2023.12: Call for TAs from the EP STP members
- 2023.12.29: 1st TA workshop
- 2024.1.9: EP launched!
- 2024.1-now: Update the TA tools
- 2024.4.8-11: 2nd TA workshop



EP TA workshop @ NAOC 2024-04-08

Working plan

1. Organize the 3rd EP workshop in June or July 2024

- 2. Develop and update the TA tools and procedures
- ☐ List the recent alert information (GCN & ATel & TNS) on the source page
- ☐ Update the ToO-MM procedures
- □ Seek transients with short timescale
- □ Some little tools not complicated but much helpful
- More guidelines