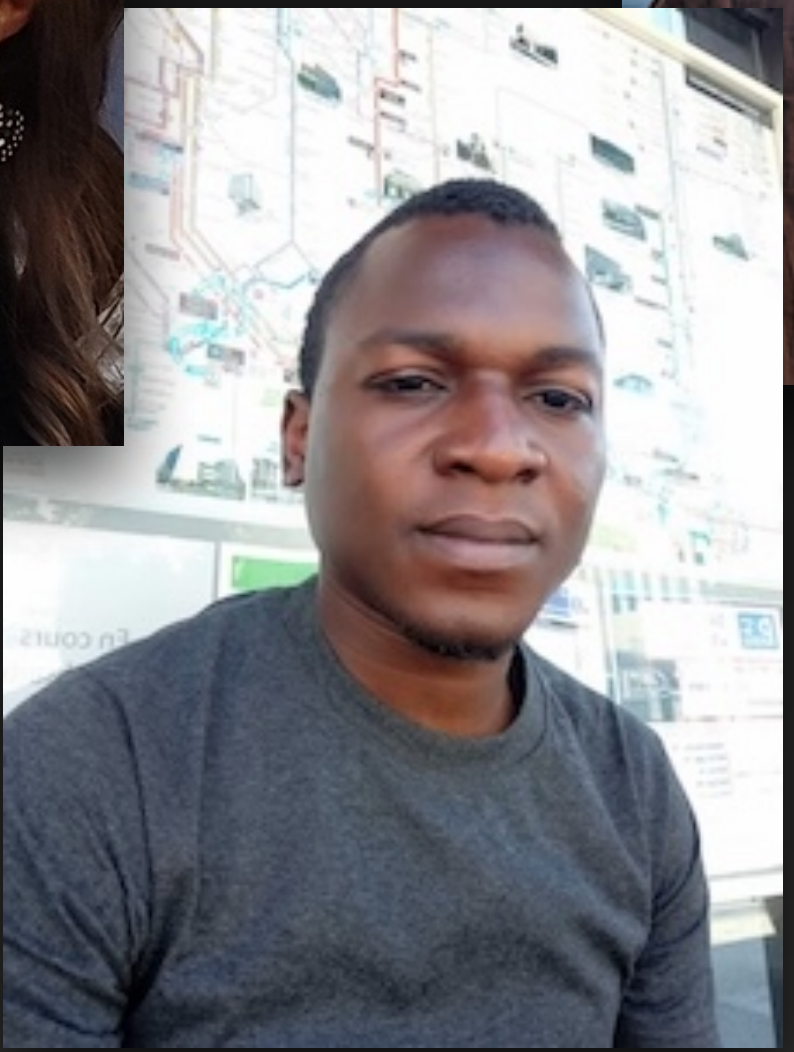
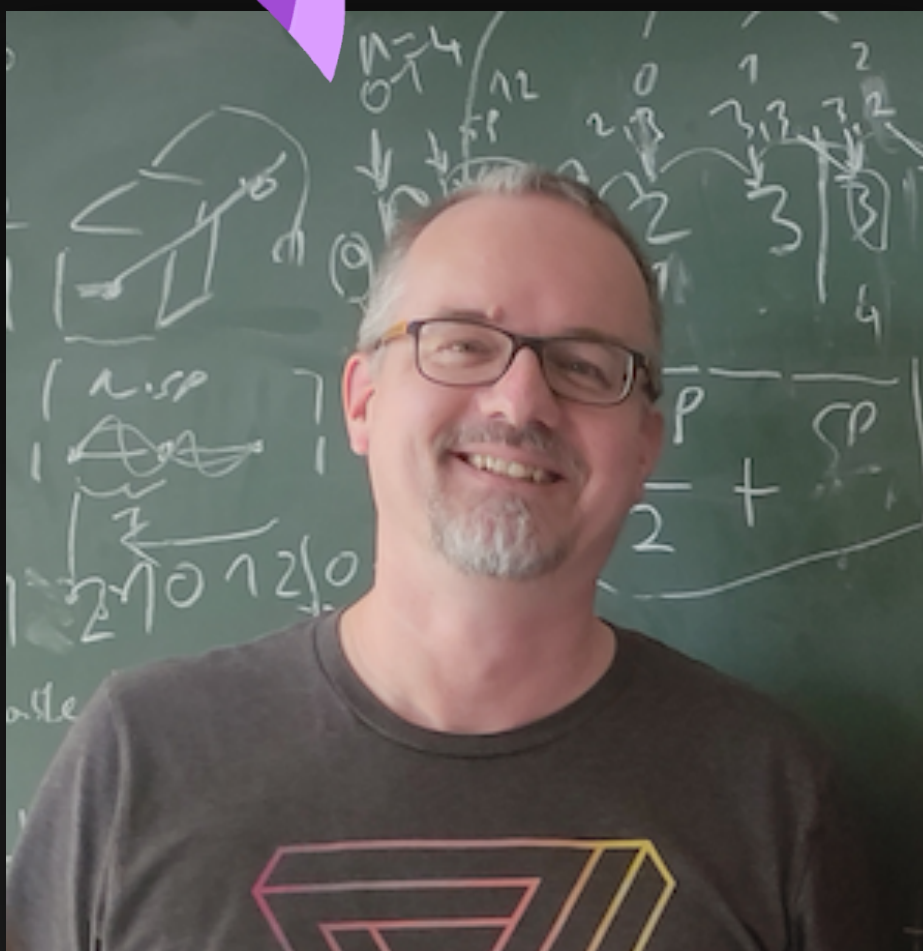




# Astro-COLIBRI



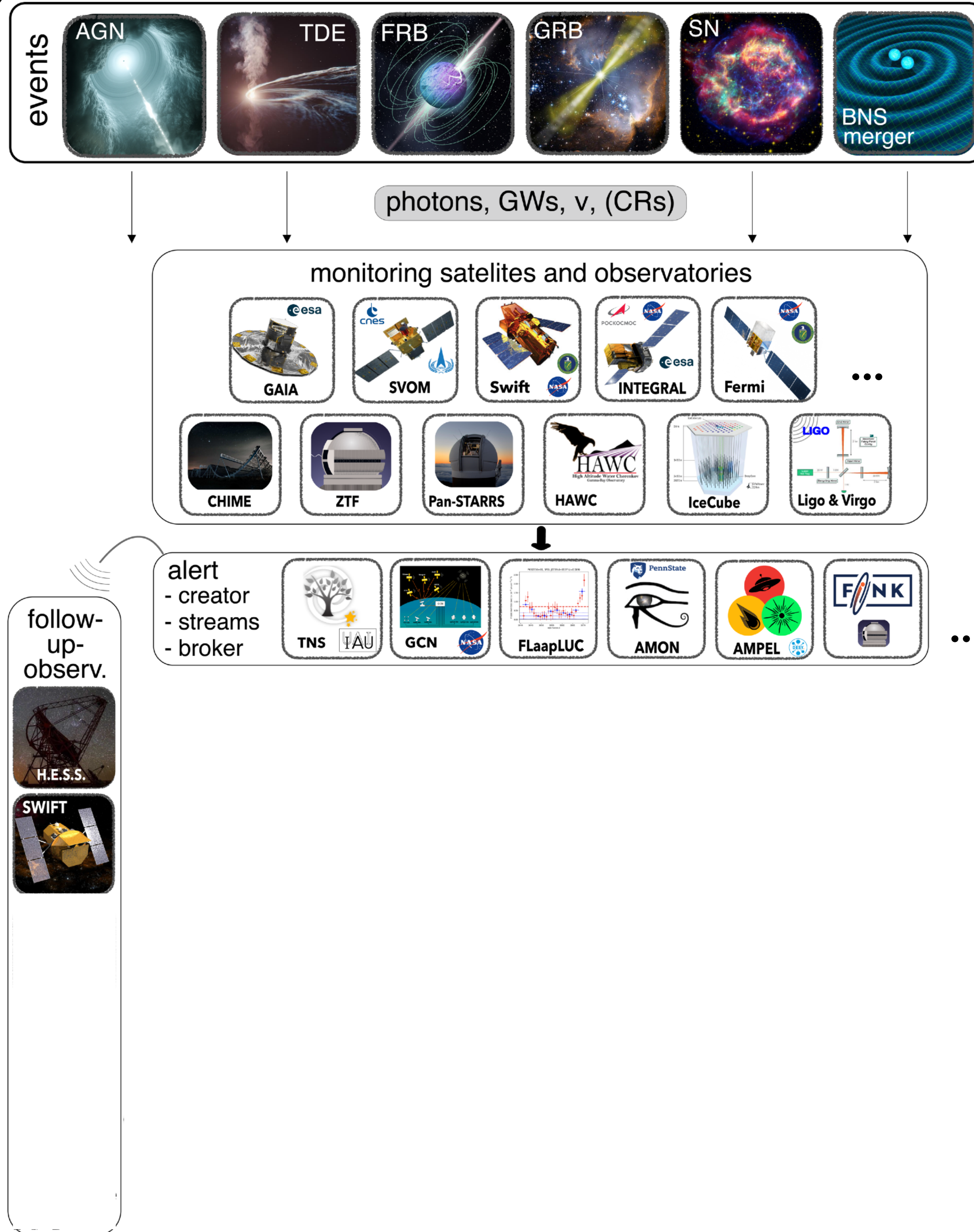
+ many contributions from the community

Ilja Jaroschewski (IRFU, CEA Paris-Saclay)



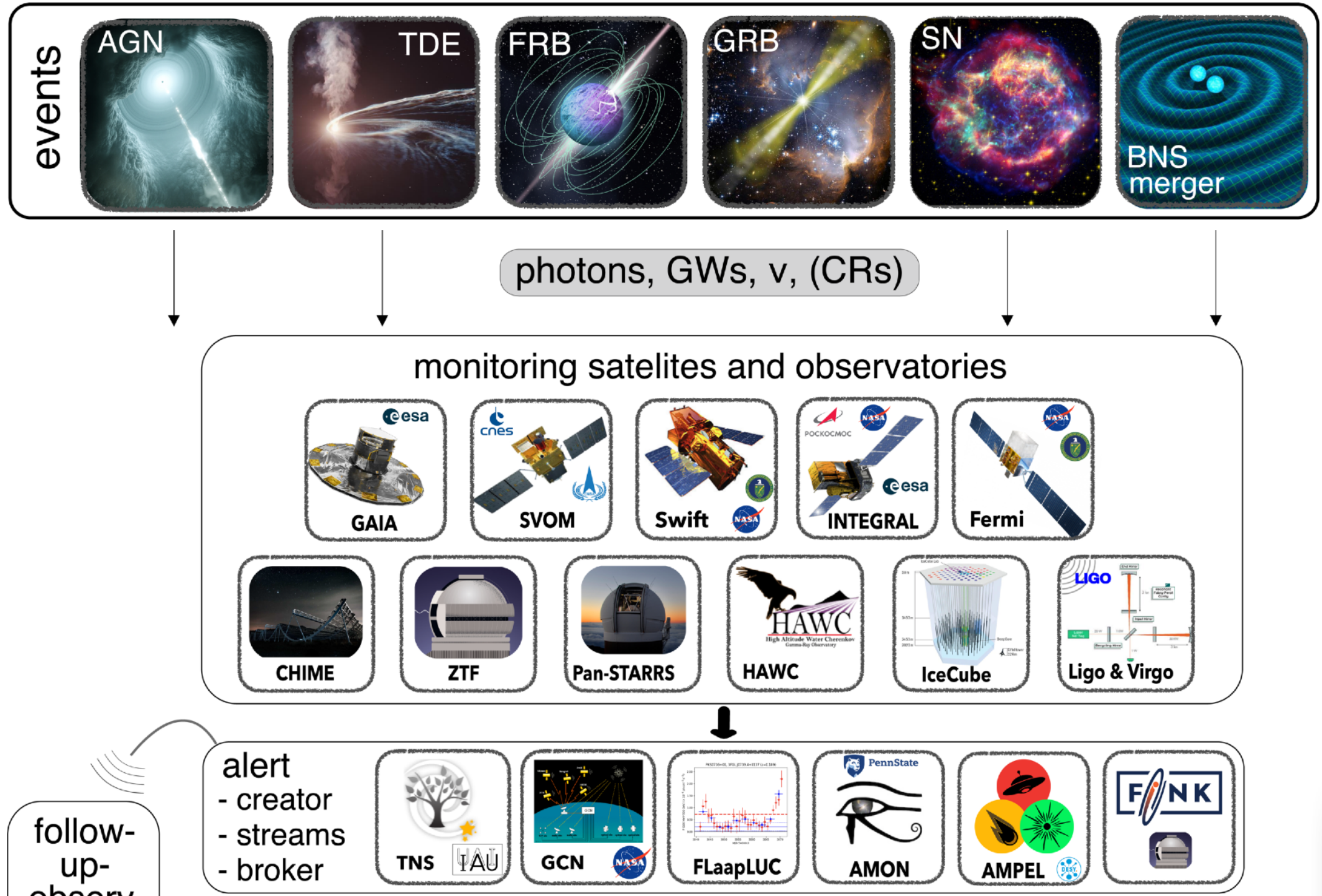


# Improve time domain astrophysics





# Improve time domain astrophysics



### Recurrent Nova M31N 2008-12a: Discovery of the 2024 eruption

ATel #16942; *Jingyuan Zhao (Xingming Observatory), A. W. Shafter, J. C. Horst, R. M. Quimby (SDSU), M. J. Darnley, M. W. Healy-Kalesh (LJMU), K. L. Page (U. Leicester), on behalf of the 12a Collaboration*

**on 13 Dec 2024; 04:31 UT**

Distributed as an Instant Email Notice Novae

Credential Certification: Allen W. Shafter (ashafter@sdsu.edu)

### GCN Circular 38568

**Subject** GRB 241209B: SVOM/VT optical continuous fading  
**Date** 2024-12-14T06:11:47Z (4 hours ago)  
**From** Chao Wu at NAOC <cwu@nao.cas.cn>  
**Via** Web form

SVOM/VT commissioning team: Y. L. Qiu, H. Cai, Y. Xu, Y. J. Xiao, P. P. Zhang, J. S. Zhang, L. J. Dan, G. Y. Zou, C. J. Wang,

SVOM JSWG: Jian-Yan Wei (NAOC), Bertrand Arnaud Claret (CEA), Zi-Gao Dai (USTC), F (IRAP), Andrea Goldwurm (APC), Diego Götz (GXU), Yu-Lei Qiu (NAOC), Susanna Vergani (NAOC), Shao-Lin Xiong (IHEP), Bing Zhang

report on behalf of the SVOM team:

SVOM/VT revisited GRB 241209B (Xie et al., time of 8750 seconds. The optical counter a magnitude of 23.70 +/- 0.30 in VT\_R. Not simultaneous channel VT\_B.

The Space Variable Objects Monitor (SVOM) Space Administration (CNSA, China), National Academy of Sciences (CAS, China), which is phenomena in the energetic universe. VT w Mechanics (XIOPM), CAS and National astro

### BHTOM Targets for 22 September, 2025

wyrzykow@gmail.com  
an bhtomtargers

Hello,

Greetings from the BHTOM Automated Newsletter!

As of 2025-09-22 10:05:35.180466+00:00, these are the new targets added in the last week for observing (importance>=1), sorted by magnitude:

| name                         | ra         | dec        | mag_last | sun_separation | classification | description   |
|------------------------------|------------|------------|----------|----------------|----------------|---|
| <a href="#">AT2025wyg</a>    | 262.551250 | -27.896889 | 11.4     | 84.0           | Unknown        | Nova found by Tadashi Kojima                        |
| <a href="#">AT2025xes</a>    | 66.887308  | -42.165719 | 15.1     | 107.0          | Unknown        | Candidate nuclear transient from ATLAS via TNS      |
| <a href="#">AT2025xeg</a>    | 119.111725 | -78.699383 | 15.5     | 85.0           | Unknown        | Candidate supernova from ATLAS and GOTO via TNS     |
| <a href="#">AT2025xop</a>    | 295.930617 | -18.696344 | 17.0     | 115.0          | Unknown        | Candidate supernova from LAST via TNS, gone already |
| <a href="#">ZTF25aaawfve</a> | 274.631244 | -20.899773 | 19.8     | 95.0           | Unknown        | candidate binary microlensing event from ZTF        |
| <a href="#">AT2025xvc</a>    | 85.526933  | -67.018517 | 20.2     | 92.0           | Unknown        | possible bright nova or CV in LMC from GOTO,TNS     |

In addition, here are some older targets that are currently visible and requested for observations. These targets have an importance>=4, a sun separation last magnitude<18, sorted by magnitude.

The following new classification/s were reported on:

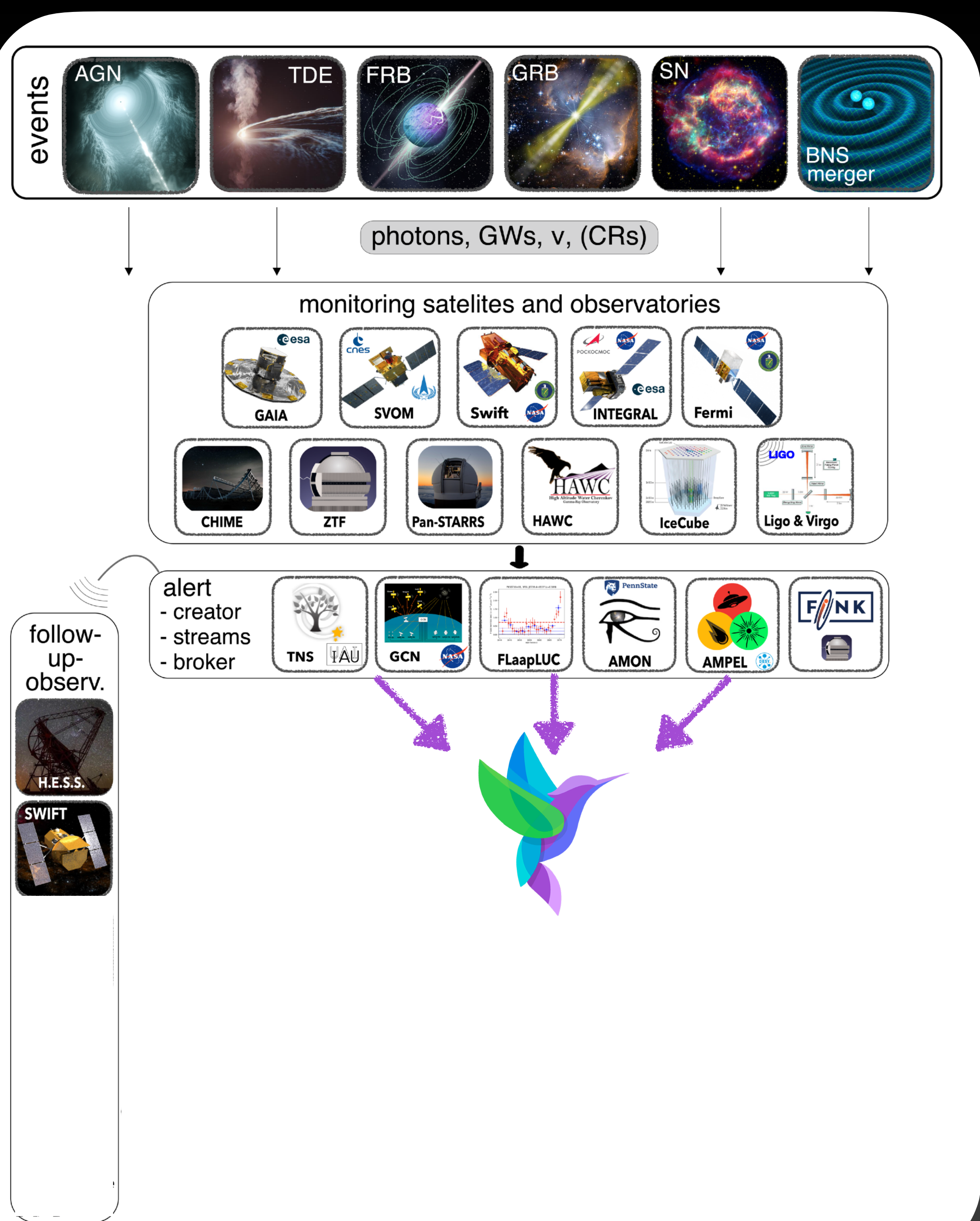
```

2021agrk RA=16:31:36.210, DEC=+13:38:14.93, Classification=SN II, Redshift=0.015
group: ePESSTO+
2022dkw RA=14:35:50.295, DEC=+24:40:58.20, Classification=SN IIn, Redshift=0.015
group: ePESSTO+
2022dlf RA=13:24:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.015
Source group: ePESSTO+
2022dsu RA=14:05:30.767, DEC=+15:43:15.52, Classification=SN Ia-91bg-like, Redshift=0.015
Source group: ePESSTO+
2022efq RA=16:40:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.015
group: ePESSTO+
2022ehu RA=20:10:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.015
group: ePESSTO+
2022eml RA=10:20:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.015
group: ePESSTO+
2022enc RA=14:40:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.015
group: ePESSTO+
  
```

```

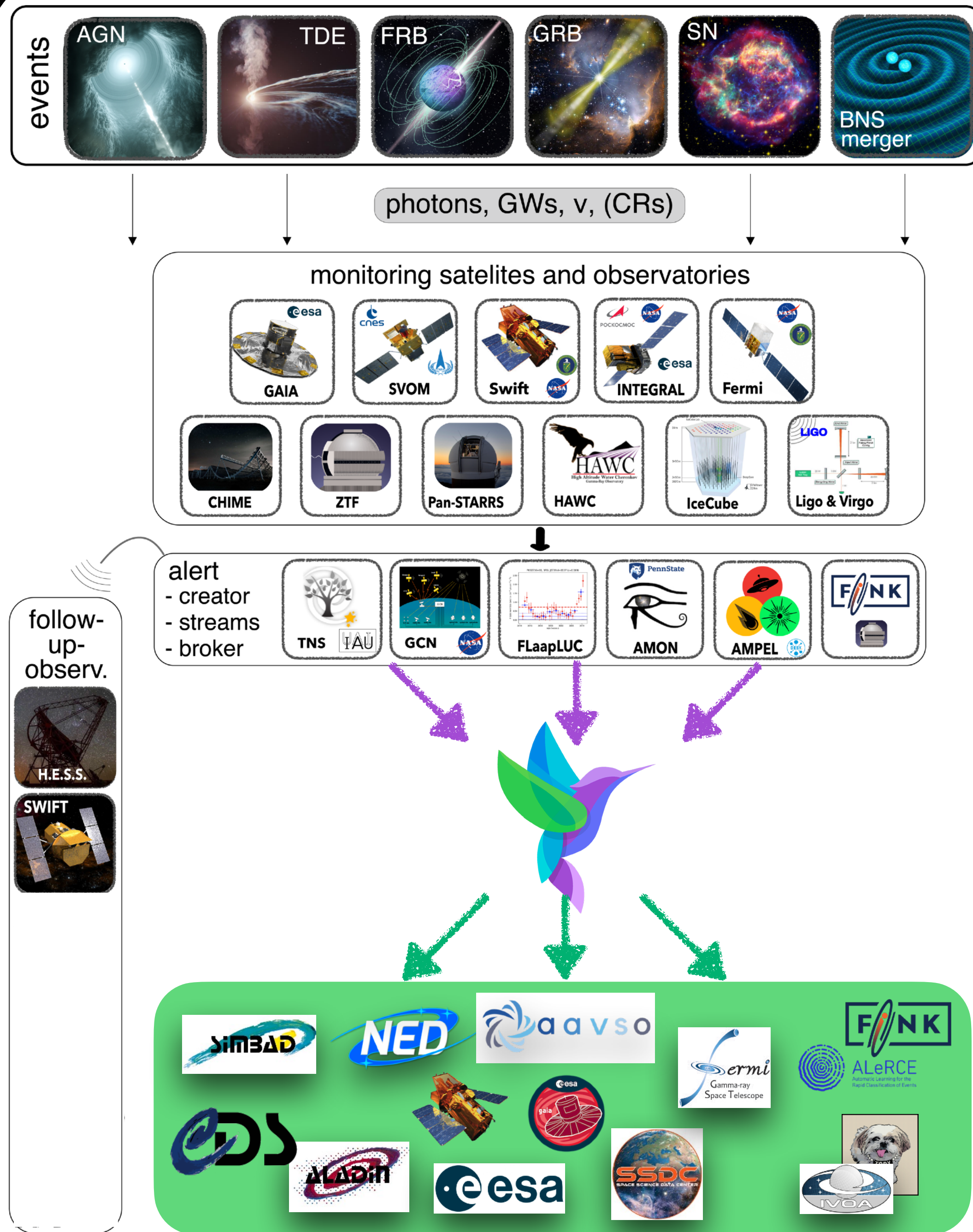
{
  "$schema": "https://gcn.nasa.gov/schema/v4.2.0/voe",
  "type": "IceCube LVK Alert Nu Track Search",
  "reference": {
    "gcn.notices.LVK.alert": "S230914ak-2-Preliminary",
    "ref_ID": "S230914ak",
    "alert_datetime": "2023-09-14T11:49:16.526Z",
    "trigger_time": "2023-09-14T11:14:01Z",
    "observation_start": "2023-09-14T11:05:41.000Z",
    "observation_stop": "2023-09-14T11:22:21.000Z",
    "observation_livetime": 1000,
    "pval_generic": 0.0191,
    "pval_bayesian": 0.0549,
    "n_events_coincident": 2,
    "coincident_events": [
      {
        "event_dt": 12.91,
        "localization": {
          "ra": 17.48,
          "dec": 16.15,
          "ra_dec_error": 0.5,
          "containment_probability": 0.9,
          "systematic_included": false
        },
        "id": [
          "138590_39138551"
        ],
        "event_pval_generic": 0.0191,
        "event_pval_bayesian": null
      }
    ]
  }
}
  
```

follow-up-observ.



**Improve time domain astrophysics**

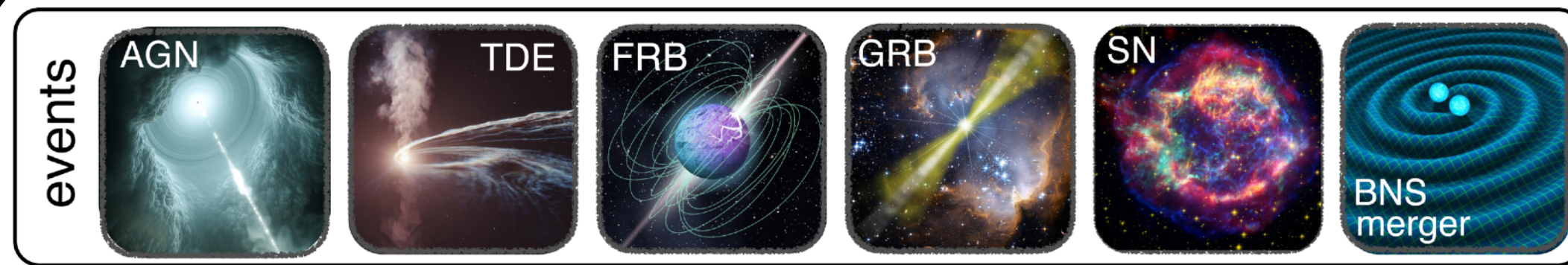
Summary of all publicly available alert channels



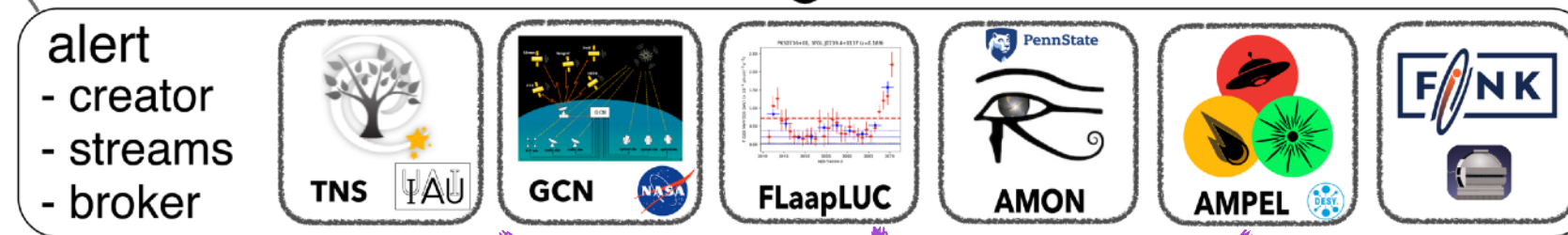
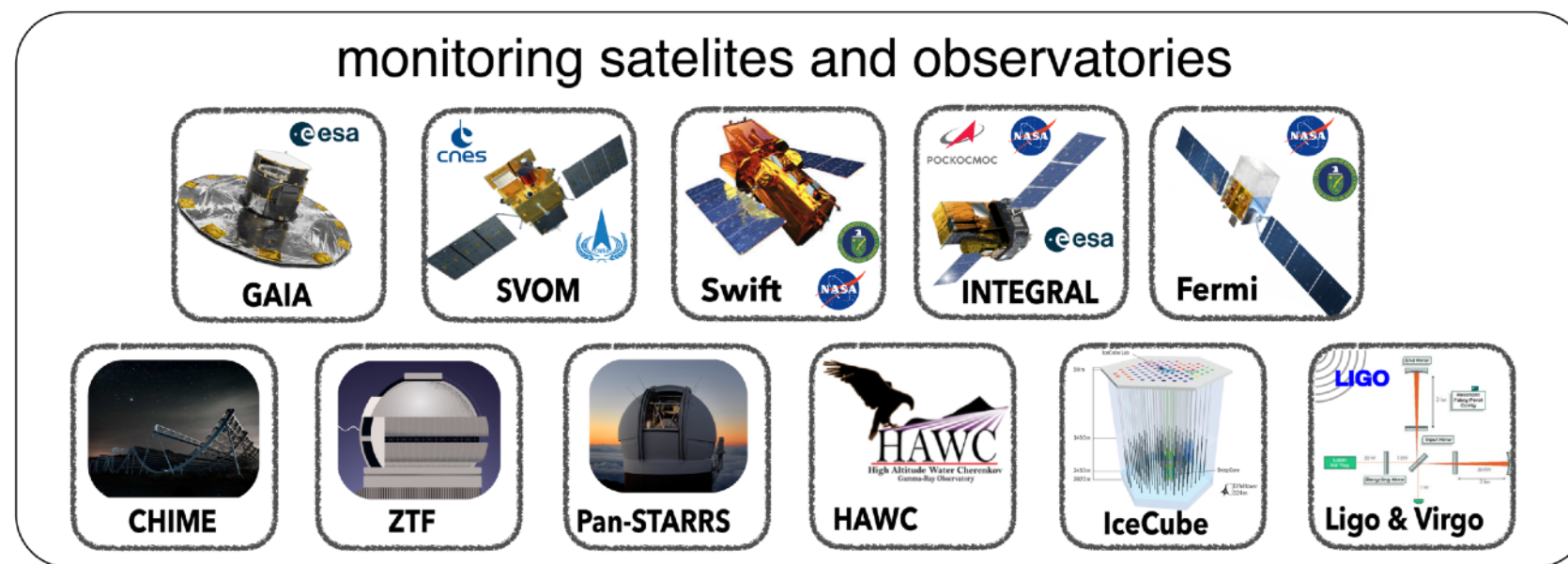
Improve time domain astrophysics

Summary of all publicly available alert channels

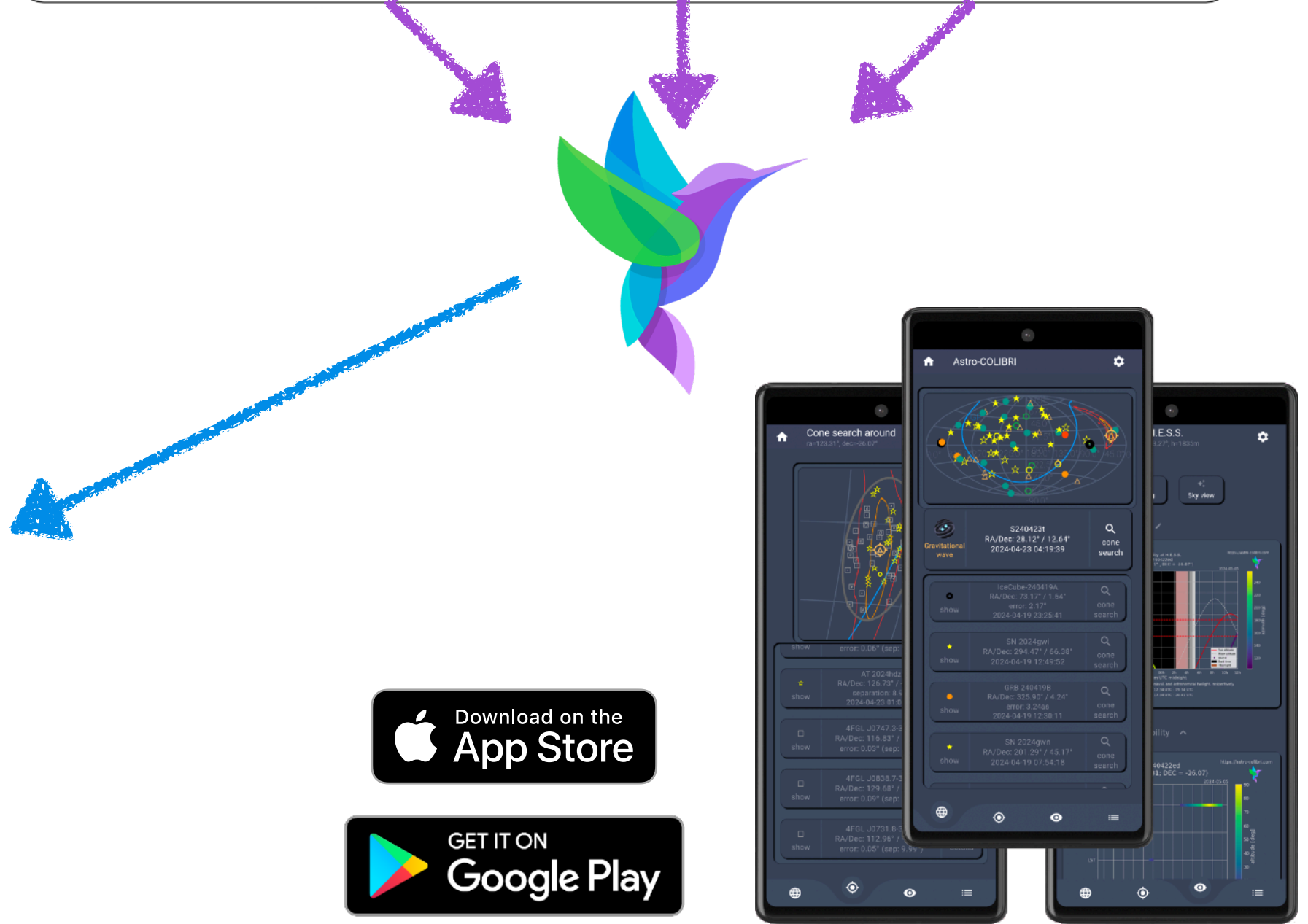
Complement existing platforms



photons, GWs,  $\nu$ , (CRs)



follow-up-observ.



Improve time domain astrophysics

Summary of all publicly available alert channels

Complement existing platforms

Modern platforms: API + web + smartphones

professional + amateur astronomers



# User interfaces

<https://astro-colibri.com>



The screenshot shows the Astro-COLIBRI web interface. At the top, there are navigation buttons for 'Select action', 'Latest transients', 'Cone search', 'Personalize', and 'Status: logged out'. Below this is a filter bar for 'Observatories' (Swift, Fermi, HAWC, IceCube, AMON, Integral, GECAM, FlaapLUC, LVC, Catalogs, Other) and 'Event type' (FRB, Unclassified OT, Classified OT, SN, GRB, burst, neutrino, nuem, GW, 4FGL, TeVCAT, SGR/AXP, IceCat). A timeline shows dates from 2023-11-08 to 2023-11-23. The main content area is divided into three columns: a list of recent events (e.g., S231123cg Gravitational wave, GRB 231123A Gamma-ray burst), a central sky map with a 'Cone search' overlay, and a 'Detailed info about selected source' panel for S231123cg, including detection time, RA/Dec, and classification. At the bottom, there are links for further details to external services like GraceDB, TreasureMap, ALADIN, ESASky, and Transient Server.

The image shows three smartphone screens displaying the Astro-COLIBRI mobile app. The first screen shows a 'Cone search' interface with a sky map and a list of nearby sources. The second screen shows 'Source info' for GRB 220107A, including its RA/Dec, detection time, and a 'visibility' button. The third screen shows 'Visibility at H.E.S.S.' with a graph of altitude vs. azimuth and a 'Monthly visibility' calendar view. The app interface is dark-themed and includes a bottom navigation bar with icons for home, search, and visibility.



<https://astro-colibri.science>



# Non-Science Mode

Astro-COLIBRI interface showing a list of astronomical events, a central sky map, and detailed information for a selected event.

**Navigation and Settings:**

- Language:
- Search:
- Share:
- Personalize:
- Science mode:  (highlighted with a red box)
- Status: logged out
- Infos: v2.29.0

**Event List (Left Panel):**

- PNV J00424164+4115162** Optical transient
- EP-01709266307 Burst
- GRB 260601A Gamma-ray burst
- 3C138 GeV flare
- H1722+119 GeV flare
- TCP J00560713+4301406 Unclassified optical transient
- GRB 260531C Gamma-ray burst
- AT 2026nxf Unclassified optical transient
- StKM 1-1106

**Selected Event Details (Top Center):**

- PNV J00424164+4115162** Optical transient
- [Zoom](#)
- Date [UTC]: 2026-06-02 00:41
- Right ascension [deg]: 10.67
- Declination [deg]: 41.25
- observatory: Not known

**Sky Map (Center):**

A spherical sky map showing the position of the selected event (marked with a yellow star and a blue circle) relative to the Galactic Plane (GP). The map includes a grid of right ascension (0° to 315°) and declination (-90° to 90°) coordinates.

**Summary of the selected source:**

An intriguing astrophysical event has been detected in the Andromeda constellation, associated with the source name PNV J00424164+4115162. This is classified as a possible nova (pvn), occurring in the well-known galaxy M31, also known as the Andromeda Galaxy. The event was observed with a transient brightness of 17.4 magnitude. The event took place on June 2, 2026, and was reported by the Central Bureau for Astronomical Telegrams (CBAT). This discovery adds to the rich tapestry of stellar phenomena observed in our neighboring galaxy.

The nova's position is marked at right ascension 10.67 degrees and declination 41.25 degrees. Despite its relatively close proximity in astronomical terms, at a sun distance of 52.58 degrees, it remains a faint and distant spectacle. The extinction due to interstellar dust, noted as 0.63, suggests some light dimming as it travels through space. Observations like these enhance our understanding of stellar life cycles and the dynamic processes within galaxies.

Learn more about the events in Astro-COLIBRI here: [link](#)

Discuss this event in our forum:

Observatory: H.E.S.S.

Source is not visible from H.E.S.S. in the next 24 hours.

**External Information:**

- ALADIN: Displays event in an interactive sky atlas
- ESASky: Displays event in an interactive sky atlas
- TNS: Transient Name Server
- AAVSO: Data collected by amateur astronomers
- SciX: Find publications about this source



# Timeline

Science mode:

All events from the last 7 days are shown

The screenshot displays the Astro-COLIBRI web interface. At the top, there is a navigation bar with the Astro-COLIBRI logo, a search icon, a share icon, a chat icon, and a 'Personalize' menu. The 'Science mode' toggle is currently turned off. The status bar shows 'logged out' and 'Infos: v2.29.0'. Below the navigation bar is a timeline of events from 2026-05-26 to 2026-06-02. The selected event is 'PNV J00424164+4115162 Optical transient'. The main content area is divided into three sections: a list of events on the left, a central sky map, and a detailed view of the selected event on the right. The sky map shows the position of the event in the Andromeda constellation, marked with a yellow star and a blue circle. The detailed view includes the event name, date, coordinates, and a summary of the event. The summary text reads: 'An intriguing astrophysical event has been detected in the Andromeda constellation, associated with the source name PNV J00424164+4115162. This is classified as a possible nova (pvn), occurring in the well-known galaxy M31, also known as the Andromeda Galaxy. The event was observed with a transient brightness of 17.4 magnitude. The event took place on June 2, 2026, and was reported by the Central Bureau for Astronomical Telegrams (CBAT). This discovery adds to the rich tapestry of stellar phenomena observed in our neighboring galaxy. The nova's position is marked at right ascension 10.67 degrees and declination 41.25 degrees. Despite its relatively close proximity in astronomical terms, at a sun distance of 52.58 degrees, it remains a faint and distant spectacle. The extinction due to interstellar dust, noted as 0.63, suggests some light dimming as it travels through space. Observations like these enhance our understanding of stellar life cycles and the dynamic processes within galaxies.' Below the summary, there is a link to learn more about the events in Astro-COLIBRI and a forum discussion link. The observatory is listed as H.E.S.S. and a message states 'Source is not visible from H.E.S.S. in the next 24 hours.' At the bottom, there is an 'External information' section with links to ALADIN, ESASky, TNS, AAVSO, and SciX.

Astro-COLIBRI

2026-05-26 2026-06-02

PNV J00424164+4115162 Optical transient

EP-01709266307 Burst

GRB 260601A Gamma-ray burst

3C138 GeV flare

H1722+119 GeV flare

TCP J00560713+4301406 Unclassified optical transient

GRB 260531C Gamma-ray burst

AT 2026nxf Unclassified optical transient

StKM 1-1106 Star

PNV J00424164+4115162 Optical transient

Zoom

Date [UTC]: 2026-06-02 00:41  
Right ascension [deg]: 10.67  
Declination [deg]: 41.25  
observatory: Not known

Summary of the selected source:

An intriguing astrophysical event has been detected in the Andromeda constellation, associated with the source name PNV J00424164+4115162. This is classified as a possible nova (pvn), occurring in the well-known galaxy M31, also known as the Andromeda Galaxy. The event was observed with a transient brightness of 17.4 magnitude. The event took place on June 2, 2026, and was reported by the Central Bureau for Astronomical Telegrams (CBAT). This discovery adds to the rich tapestry of stellar phenomena observed in our neighboring galaxy.

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Learn more about the events in Astro-COLIBRI here: [link](#)

Discuss this event in our forum: [link](#)

Observatory: H.E.S.S.

Source is not visible from H.E.S.S. in the next 24 hours.

External information:

ALADIN: Displays event in an interactive sky atlas

ESASky: Displays event in an interactive sky atlas

TNS: Transient Name Server

AAVSO: Data collected by amateur astronomers

SciX: Find publications about this source



# Timeline

Science mode:

Change start and end in timeline

2026-05-26 2026-06-02

PNV J00424164+4115162  
Optical transient

EP-01709266307  
Burst

GRB 260601A  
Gamma-ray burst

3C138  
GeV flare

H1722+119  
GeV flare

TCP J00560713+4301406  
Unclassified optical transient

GRB 260531C  
Gamma-ray burst

AT 2026nxf  
Unclassified optical transient

StKM 1-1106

Date [UTC]: 2026-06-02 00:41  
Right ascension [deg]: 10.67  
Declination [deg]: 41.25  
observatory: Not known

Summary of the selected source:  
An intriguing astrophysical event has been detected in the Andromeda constellation, associated with the source name PNV J00424164+4115162. This is classified as a possible nova (pvn), occurring in the well-known galaxy M31, also known as the Andromeda Galaxy. The event was observed with a transient brightness of 17.4 magnitude. The event took place on June 2, 2026, and was reported by the Central Bureau for Astronomical Telegrams (CBAT). This discovery adds to the rich tapestry of stellar phenomena observed in our neighboring galaxy.

Observatory: H.E.S.S.

Source is not visible from H.E.S.S. in the next 24 hours.

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|    | 31 |    |    |    |    |    |

ALADIN  
Displays event in an interactive sky atlas

ESASky  
Displays event in an interactive sky atlas

TNS  
Transient Name Server



# Science Mode

Science mode:

**Astro-COLIBRI Science** Personalize: [Icons] Science mode:  Status: logged out Infos: v2.29.0

Observatories:  Swift  SVOM  Einstein Probe  Fermi  FLAapLUC  Other HE  IceCube  LVK  Radio  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  star  GRB  burst  neutrino  MWL + MM  GW

2026-05-26 | 2026-06-02

**PNV J00424164+4115162**  
Optical transient  
RA/Dec: 10.67°/41.25°  
2026-06-02 00:41:45

**EP260601a**  
Burst  
RA/Dec: 257.63°/-1.64° (± 0.05°)  
2026-06-01 19:13:22

**GRB 260601A**  
Gamma-ray burst  
RA/Dec: 15.06°/44.38° (± 2.03°)  
2026-06-01 11:00:12

**3C138**  
GeV flare  
RA/Dec: 80.31°/16.63° (± 0.07°)  
2026-06-01 10:36:49

**H1722+119**  
GeV flare  
RA/Dec: 261.27°/11.87° (± 0.01°)  
2026-06-01 10:36:49

**PNV J00424164+4115162**  
Optical transient  
Cone search

Custom cone search  
Source: PNV J00424164+4115162  
RA/Dec: deg 10.67° 41.25°

Detailed info about selected source:

last modified: 2026-06-02 02:15:03  
name: PNV J00424164+4115162  
Astro-COLIBRI ID: AC 2026olm  
observatory: Not known  
detection time: 2026-06-02 00:41:45  
localisation:  
RA [deg]: 10.67 Dec [deg]: 41.25  
RA : 0h42m41.64s Dec : 41d15m16.2s  
sun distance [deg]: 52.58  
E(B-V) [mag]: 0.63  
detection: 17.40 mag  
classification: (possible) Nova  
comment: host: M31  
broker: CBAT  
Host galaxy:  
Lightcurve:

Search for ATels

Discuss this event in our forum:

date: 2026-06-02  
time: 8:51  
Observatory: H.E.S.S.

Daily  
Multi-source  
Multi Obs.  
Longterm

External information:

CBAT Central Bureau for Astronomical Telegrams  
SIMBAD Astronomical Database  
NED NASA/IPAC Extragalactic Database  
ALADIN Displays event in an interactive sky atlas  
ESA Displays event in an interactive sky atlas



# More details about Events

Science mode:

RA/Dec, detection time, observatory/instrument, ....

The screenshot displays the Astro-COLIBRI Science interface. At the top, there is a navigation bar with the logo, search, and utility icons. Below this is a filter bar for observatories (Swift, SVOM, Einstein Probe, Fermi, FLAapLUC, Other HE, IceCube, LVK, Radio, Other) and event types (FRB, Unclassified OT, Classified OT, SN, star, GRB, burst, neutrino, MWL + MM, GW). A date range selector shows the current view from 2026-05-26 to 2026-06-02. The main content area is divided into three sections: a list of events on the left, a central sky map, and detailed information on the right. The event list includes:

- PNV J00424164+4115162** (Optical transient) - RA/Dec: 10.67°/41.25°, 2026-06-02 00:41:45
- EP260601a** (Burst) - RA/Dec: 257.63°/-1.64° (± 0.05°), 2026-06-01 19:13:22
- GRB 260601A** (Gamma-ray burst) - RA/Dec: 15.06°/44.38° (± 2.03°), 2026-06-01 11:00:12
- 3C138** (GeV flare) - RA/Dec: 80.31°/16.63° (± 0.07°), 2026-06-01 10:36:49
- H1722+119** (GeV flare) - RA/Dec: 261.27°/11.87° (± 0.01°), 2026-06-01 10:36:49

The central sky map shows a grid of RA and Dec coordinates with various event markers. A blue cone search area is centered on the selected event. The right panel provides detailed information for PNV J00424164+4115162:

- last modified: 2026-06-02 02:15:03
- name: PNV J00424164+4115162
- Astro-COLIBRI ID: AC 2026olm
- observatory: Not known
- detection time: 2026-06-02 00:41:45
- localisation: RA [deg]: 10.67, Dec [deg]: 41.25; RA: 0h42m41.64s, Dec: 41d15m16.2s
- sun distance [deg]: 52.58
- E(B-V) [mag]: 0.63
- detection: 17.40 mag
- classification: (possible) Nova
- comment: host: M31
- broker: CBAT
- Host galaxy: [dropdown]
- Lightcurve: [dropdown]

Below the details is a lightcurve plot showing flux density over time. At the bottom, there is an 'External information' section with links to CBAT, SIMBAD, NED, ALADIN, and ESA.



# Filters

Science mode:

Observatories

Choose observatories and event types relevant for you!

Event type

The screenshot displays the Astro-COLIBRI interface with the following components:

- Header:** Astro-COLIBRI Science logo, navigation icons, Personalize settings, Science mode (checked), Status: logged out, and version info (v2.29.0).
- Filter Bar:** A red box highlights the filter controls, including:
  - Observatories:** Swift, SVOM, Einstein Probe, Fermi, FLAapLUC, Other HE, IceCube, LVK, Radio, Other.
  - Event type:** FRB, Unclassified OT, Classified OT, SN, star, GRB, burst, neutrino, MWL + MM, GW.
- Timeline:** A horizontal timeline from 2026-05-26 to 2026-06-02 with event markers.
- Event List:** A vertical list of events with details:
  - PNV J00424164+4115162:** Optical transient, RA/Dec: 10.67°/41.25°, 2026-06-02 00:41:45.
  - EP260601a:** Burst, RA/Dec: 257.63°/-1.64° (± 0.05°), 2026-06-01 19:13:22.
  - GRB 260601A:** Gamma-ray burst, RA/Dec: 15.06°/44.38° (± 2.03°), 2026-06-01 11:00:12.
  - 3C138:** GeV flare, RA/Dec: 80.31°/16.63° (± 0.07°), 2026-06-01 10:36:49.
  - H1722+119:** GeV flare, RA/Dec: 261.27°/11.87° (± 0.01°), 2026-06-01 10:36:49.
- Sky Map:** A central map showing a blue cone search region centered on the selected event, with various colored stars representing other events.
- Source Details:** A panel on the right providing information for PNV J00424164+4115162:
  - last modified: 2026-06-02 02:15:03
  - name: PNV J00424164+4115162
  - Astro-COLIBRI ID: AC 2026olm
  - observatory: Not known
  - detection time: 2026-06-02 00:41:45
  - localisation: RA [deg]: 10.67, Dec [deg]: 41.25; RA: 0h42m41.64s, Dec: 41d15m16.2s
  - sun distance [deg]: 52.58
  - E(B-V) [mag]: 0.63
  - detection: 17.40 mag
  - classification: (possible) Nova
  - comment: host: M31
  - broker: CBAT
  - Host galaxy: [dropdown]
  - Lightcurve: [dropdown]
- External Information:** Links to CBAT, SIMBAD, NED, ALADIN, and ESA.



# Filters

Science mode:

Observatories

Choose observatories and event types relevant for you!

The screenshot shows the Astro-COLIBRI Science interface. At the top, there is a navigation bar with a search icon, share icon, download icon, and a 'Personalize' menu. The 'Science mode' toggle is turned on. Below the navigation bar, there are filter buttons for 'Observatories' (Swift, SVOM, Einstein Probe, Fermi, FLAapLUC, Other HE, IceCube, LVK, Radio, Other) and 'Event type' (FRB, Unclassified OT, Classified OT, SN, star, GRB, burst, neutrino, MWL + MM, GW). A red box highlights these filter sections. Below the filters is a date range selector from 2026-05-26 to 2026-06-02. The main content area is divided into three columns: a list of events, a sky map, and detailed information for the selected source. The event list on the left includes:

- PNV J00424164+4115162 Optical transient (RA/Dec: 10.67°/41.25°, 2026-06-02 00:41:45)
- EP260601a Burst (RA/Dec: 257.63°/-1.64° (± 0.05°), 2026-06-01 19:13:22)
- GRB 260601A Gamma-ray burst (RA/Dec: 15.06°/44.38° (± 2.03°), 2026-06-01 11:00:12)
- 3C138 GeV flare (RA/Dec: 80.31°/16.63° (± 0.07°), 2026-06-01 10:36:49)
- H1722+119 GeV flare (RA/Dec: 261.27°/11.87° (± 0.01°), 2026-06-01 10:36:49)

The sky map in the center shows a grid of celestial coordinates with various colored stars and a blue cone search area. The detailed information panel on the right for PNV J00424164+4115162 includes:

- name: PNV J00424164+4115162
- Astro-COLIBRI ID: AC 2026olm
- observatory: Not known
- detection time: 2026-06-02 00:41:45
- localisation: RA [deg]: 10.67, Dec [deg]: 41.25; RA: 0h42m41.64s, Dec: 41d15m16.2s; sun distance [deg]: 52.58; E(B-V) [mag]: 0.63; detection: 17.40 mag; classification: (possible) Nova; comment: host: M31; broker: CBAT
- Host galaxy: [dropdown]
- Lightcurve: [dropdown]

Below the detailed info is a 'Search for ATels' button, a forum discussion section with date and time filters, and a lightcurve plot. At the bottom, there is an 'External information' section with links to CBAT, SIMBAD, NED, ALADIN, and ESA.

Event type

• « I am interested in optical transients only »



# Filters

Science mode:

Choose observatories and event types relevant for you!

The screenshot shows the Astro-COLIBRI Science interface. At the top, there is a navigation bar with the logo, search, share, download, and chat icons, along with a 'Personalize' menu and 'Science mode' toggle (checked). Below this is a filter bar with 'Observatories' (Swift, SVOM, Einstein Probe, Fermi, FLAapLUC, Other HE, IceCube, LVK, Radio, Other) and 'Event type' (FRB, Unclassified OT, Classified OT, SN, star, GRB, burst, neutrino, MWL + MM, GW). A date range from 2026-05-26 to 2026-06-02 is shown with star ratings. The main content area features a list of events on the left, a central sky map with a blue cone search region, and a detailed info panel on the right. A white callout box is overlaid on the right side.

**Event list:**

- PNV J00424164+4115162 Optical transient
- TCP J00560713+4301406 Unclassified optical transient
- AT 2026nxf Unclassified optical transient
- TCP J12242510+2847120 Unclassified optical transient
- AT 2026obc Unclassified optical transient

**Event details (PNV J00424164+4115162):**

- name: PNV J00424164+4115162
- Astro-COLIBRI ID: AC 2026olm
- observatory: Not known
- detection time: 2026-06-02 00:41:45
- localisation: RA [deg]: 10.67, Dec [deg]: 41.25
- RA: 0h42m41.64s, Dec: 41d15m16.2s
- sun distance [deg]: 52.58
- E(B-V) [mag]: 0.63
- detection: 17.40 mag
- classification: (possible) Nova
- comment: host: M31
- broker: CBAT
- Host galaxy: [dropdown]
- Lightcurve: [dropdown]

**Callout box:**

- « I am interested in optical transients only »

**External information:**

- CBAT: Central Bureau for Astronomical Telegrams
- SIMBAD: Astronomical Database
- NED: NASA/IPAC Extragalactic Database
- ALADIN: Displays event in an interactive sky atlas
- ESASky: Displays event in an interactive sky atlas
- DESI L: Imagin



# Filters

Science mode:

**Long press:** more filter options like type, observatories or magnitude filters

The screenshot displays the Astro-COLIBRI interface with several filter menus overlaid. At the top, the 'Science mode' toggle is active. The main interface shows a list of transients on the left, a central sky map, and a detailed view of a selected source on the right. The filter menus are as follows:

- Classified OT:**
  - Detection (mag)  $\leq$  30.0
  - Everything else
  - Nova
  - TDE
  - CV
  - Variable Stars
- Other:**
  - Everything else
  - ATLAS
  - Gaia
  - LAST
  - LSST@Rubin
  - MASTER
- general:**
  - Observatory visibility 60
  - Declination min [deg]  $\geq$  -90
  - Declination max [deg]  $\leq$  90
  - Everything else
  - Follow-up: RAPAS

The sky map shows a grid of celestial coordinates with a blue circle indicating the field of view. The detailed view on the right includes a lightcurve plot and external information links for various observatories like Fink, ASAS-SN, AAVSO, LSXPS, FAVA, and L.



# Filters

Science mode:

**Long press:** more filter options like type, observatories or magnitude filters

The screenshot shows the Astro-COLIBRI Science interface with several filter menus overlaid. The 'Classified OT' menu includes options for 'Detection (mag) <= 30.0', 'Everything else', 'Nova', 'TDE', 'CV', and 'Variable Stars'. The 'Other' menu includes 'Everything else', 'ATLAS', 'Gaia', 'LAST', 'LSST@Rubin', and 'MASTER'. The 'general' menu includes 'Observatory visibility 60', 'Declination min [deg] >= -90', 'Declination max [deg] <= 90', 'Everything else', and 'Follow-up: RAPAS'. The background shows a star map, a list of transients, and a lightcurve plot.

**With user account:**  
Filters are saved and applied to both, App and web version!



# Optical Lightcurves

Science mode:

**Astro-COLIBRI** Science

Personalize:

Science mode:  Status: *logged out* Infos: v2.29.0

Observatories:  Swift  SVOM  Einstein Probe  Fermi  FLAapLUC  Other HE  IceCube  LVK  Radio  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  star  GRB  burst  neutrino  MWL + MM  GW

2026-05-26 | 05-26 | 05-27 | 05-28 | 05-29 | 05-30 | 05-31 | 06-01 | 06-02 | 2026-06-02

RA/Dec: 197.69°/53.37° (± 0.05°)  
2026-05-26 17:37:56 +

**AT 2026nxd**  
Unclassified optical transient ☆  
RA/Dec: 23.00°/19.21°  
2026-05-26 11:43:07 +

**EP260526a**  
Burst ○  
RA/Dec: 236.06°/-23.77° (± 0.04°)  
2026-05-26 09:43:34 +

**1164283517**  
Fast radio burst ⊕  
RA/Dec: 226.48°/46.71° (± 0.66°)  
2026-05-26 06:49:49 +

**AT 2026lck**  
Optical transient ☆  
RA/Dec: 280.99°/1.88°  
2026-04-24 09:54:13 +

Total Events: 52

**AT 2026lck**  
Optical transient  
Cone search +

Custom cone search  
Source: AT 2026lck  
RA/Dec: deg 280.99° 1.88°

Detailed info about selected source: Archive: ▾  
last modified: 2026-06-02 10:21:07  
name: AT 2026lck  
Astro-COLIBRI ID: AC 2026lckf  
observatory: ZTF discovery name: DCAP32  
detection time: 2026-04-24 09:54:13  
localisation:  
RA [deg]: 280.99 Dec [deg]: 1.88  
RA : 18h43m58.56s Dec : 1d52m48.46s  
sun distance [deg]: 109.64  
E(B-V) [mag]: 2.30  
follow-up: RAPAS  
detection: 15.89 mag (I-ZTF)  
classification: Nova  
broker: TNS  
Host galaxy:

Lightcurve: ▾

Light-curve fit (NMMA): ▾  
Archival context

Search for ATels

This event is being discussed in our forum:

External information: auto scroll

**NED**  
NASA/IPAC Extragalactic Database

**ALADIN**  
Displays event in an interactive sky atlas

**ESASky**  
Displays event in an interactive sky atlas

**Legacy Survey**  
DESI Legacy Imaging Surveys

**TNS**  
Transient Name Server

**WISE**  
Spectra a

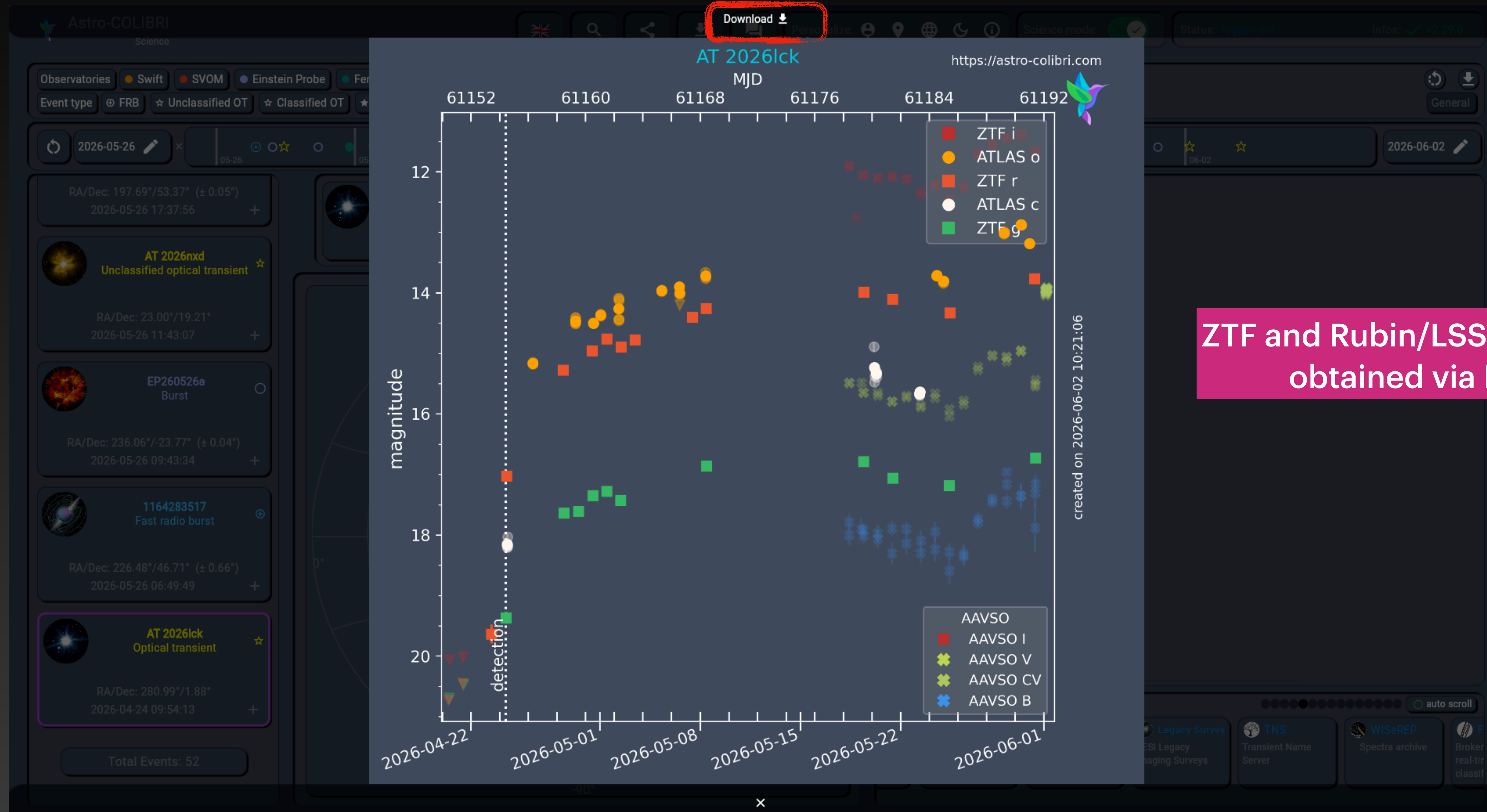


# Optical Lightcurves

Science mode:

**Optical transients:** lightcurve updated 1 once per day for 15 days

**Classified optical transients:** lightcurve updated 1 once per day for 50 days



ZTF and Rubin/LSST photometry obtained via Fink API



# Optical Lightcurves

Science mode:

## Custom lightcurve query

Astro-COLIBRI Science

Personalize:

Science mode:  Status: logged out Infos: v2.29.0

Observatories:  Swift  SVOM  Einstein Probe  Fermi  FLAapLUC  Other HE  IceCube  LVK  Radio  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  star  GRB  burst  neutrino  MWL + MM  GW

2026-05-26 | 2026-06-02

RA/Dec: 197.69°/53.37° (± 0.05°)  
2026-05-26 17:37:56 +

**AT 2026nxd**  
Unclassified optical transient ☆  
RA/Dec: 23.00°/19.21°  
2026-05-26 11:43:07 +

**EP260526a**  
Burst ○  
RA/Dec: 236.06°/-23.77° (± 0.04°)  
2026-05-26 09:43:34 +

**1164283517**  
Fast radio burst ⊕  
RA/Dec: 226.48°/46.71° (± 0.66°)  
2026-05-26 06:49:49 +

**AT 2026lck**  
Optical transient ☆  
RA/Dec: 280.99°/1.88°  
2026-04-24 09:54:13 +

Total Events: 52

**AT 2026lck**  
Optical transient  
Cone search +

Custom cone search  
Source: AT 2026lck  
RA/Dec: deg 280.99° 1.88°

Detailed info about selected source:

last modified: 2026-06-02 10:21:07 Archive:

name: AT 2026lck

Astro-COLIBRI ID: AC 2026lckf

observatory: ZTF discovery name: DCAP32

detection time: 2026-04-24 09:54:13

localisation:  
RA [deg]: 280.99 Dec [deg]: 1.88

RA : 18h43m58.56s Dec : 1d52m48.46s

sun distance [deg]: 109.64

E(B-V) [mag]: 2.30

follow-up: RAPAS

detection: 15.89 mag (I-ZTF)

classification: Nova

broker: TNS

Host galaxy:

Lightcurve:

Light-curve fit (NMMA):

Archival context

Search for ATels

This event is being discussed in our forum:

External information:  auto scroll

**NED**  
NASA/IPAC  
Extragalactic  
Database

**ALADIN**  
Displays event in an  
interactive sky atlas

**ESASky**  
Displays event in an  
interactive sky atlas

**Legacy Survey**  
DESI Legacy  
Imaging Surveys

**TNS**  
Transient Name  
Server

**WISE**  
Spectra a



# Optical Lightcurves

Science mode:

**Custom lightcurve query:** chose time range, brokers + download data

The screenshot displays the Astro-COLIBRI Science interface. At the top, there is a navigation bar with the logo, search, share, download, and chat icons, along with a 'Personalize' menu and 'Science mode' toggle (checked). The main interface is divided into several sections:

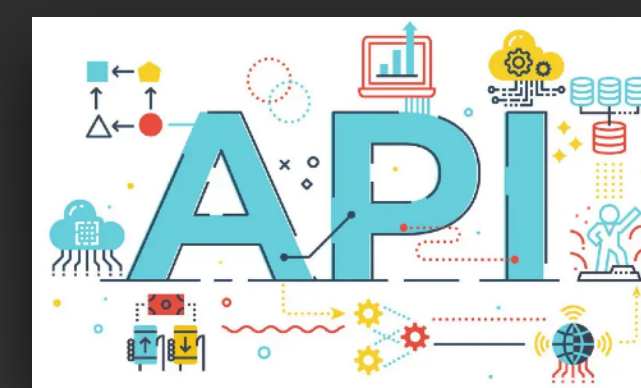
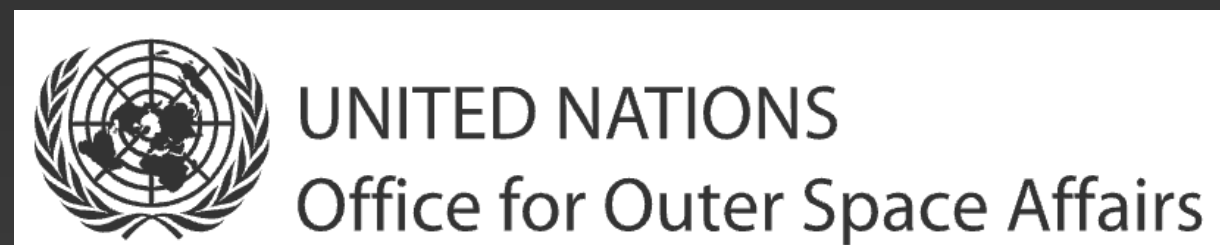
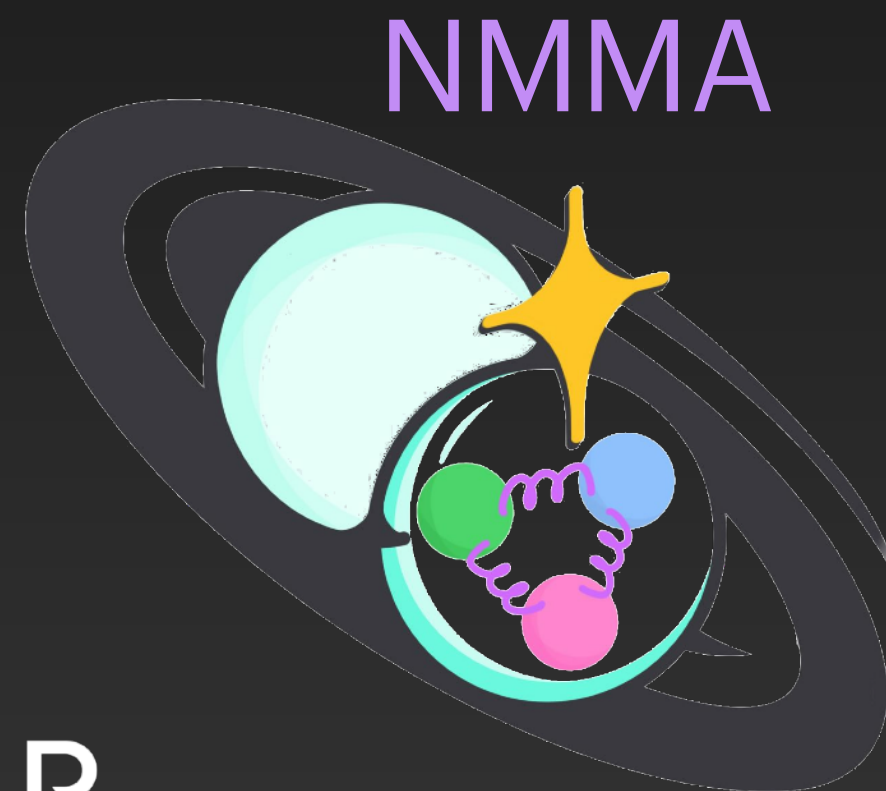
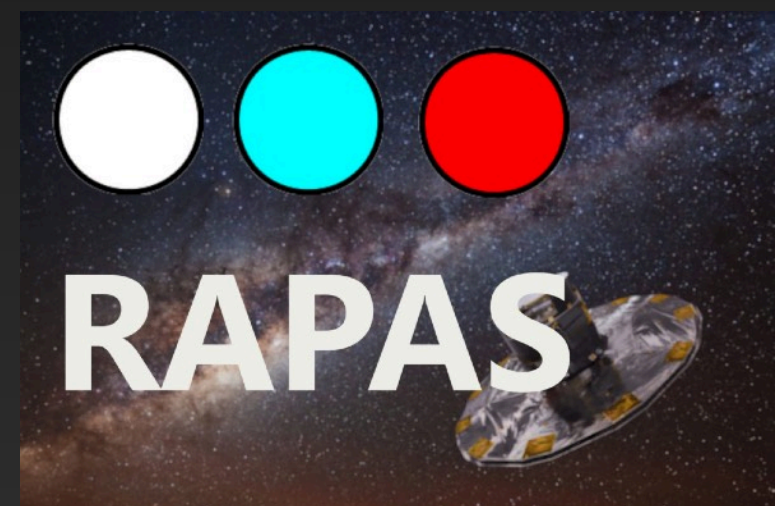
- Filtering:** Buttons for 'Observatories' (Swift, SVOM, Einstein Probe, Fermi, FLAapLUC, Other HE, IceCube, LVK, Radio, Other) and 'Event type' (FRB, Unclassified OT, Classified OT, SN, star, GRB, burst, neutrino, MWL + MM, GW).
- Time Range:** A timeline from 2026-05-26 to 2026-06-02 with a 'Custom cone search' panel for 'AT 2026lck' showing RA/Dec: 280.99°, 1.88°.
- Event List:** A vertical list of events including 'AT 2026lck' (Optical transient), 'AT 2026nxd' (Unclassified optical transient), 'EP260526a' (Burst), and '1164283517' (Fast radio burst).
- Sky Map:** A central map showing a blue cone search region around the target star.
- Lightcurve Query Panel (highlighted in red):** A panel on the right with 'Select time range' (2026-04-19 to 2026-05-24), checkboxes for 'show ATLAS', 'show ZTF', 'show LSST', 'show ASAS-SN', 'show AAVSO', and 'show RAPAS', a 'Download lightcurve data' button, and a 'Get Optical Lightcurve' button.
- External Information:** A bottom section with links to ESASky, Legacy Survey, TNS, WISeREP, Fink, and other resources.



*Which features would be helpful for you?*

*Do you want to learn how to use something in particular?*

# Many more features to discover!



<https://astro-colibri.science>



# Astro-COLIBRI Multi-messenger Astrophysics workshops

Series of workshops including Hackathon/Sciathon (Institut Pascal, Paris-Saclay, France)

**5th ASTRO-COLIBRI**  
MULTI-MESSENGER ASTROPHYSICS WORKSHOP  
CONNECTING SOFTWARE TOOLS  
FOR REAL-TIME ASTRONOMY

PHOTONS  
GRAVITATIONAL WAVES  
NEUTRINO

5<sup>th</sup>

ID: October 12 to October 16-2026

DATA STREAMS  
CODE COLLABORATION  
REAL-TIME ANALYSIS

INTERNATIONAL WORKSHOP | FOR SCIENTISTS & DEVELOPERS

EVT\_COLIBRI\_8892\_RXT\_DATA\_STREAM\_v5.0\_STABLE COORD: 48.8566 N, 2.3522 E

Google Play App Store [www.astro-colibri.science](http://www.astro-colibri.science) [www.astro-colibri.com](http://www.astro-colibri.com)



no registration fees  
local expenses covered



October 12-16, 2026

Applications until  
end of June

<https://www.multimessenger-astrophysics.com>

