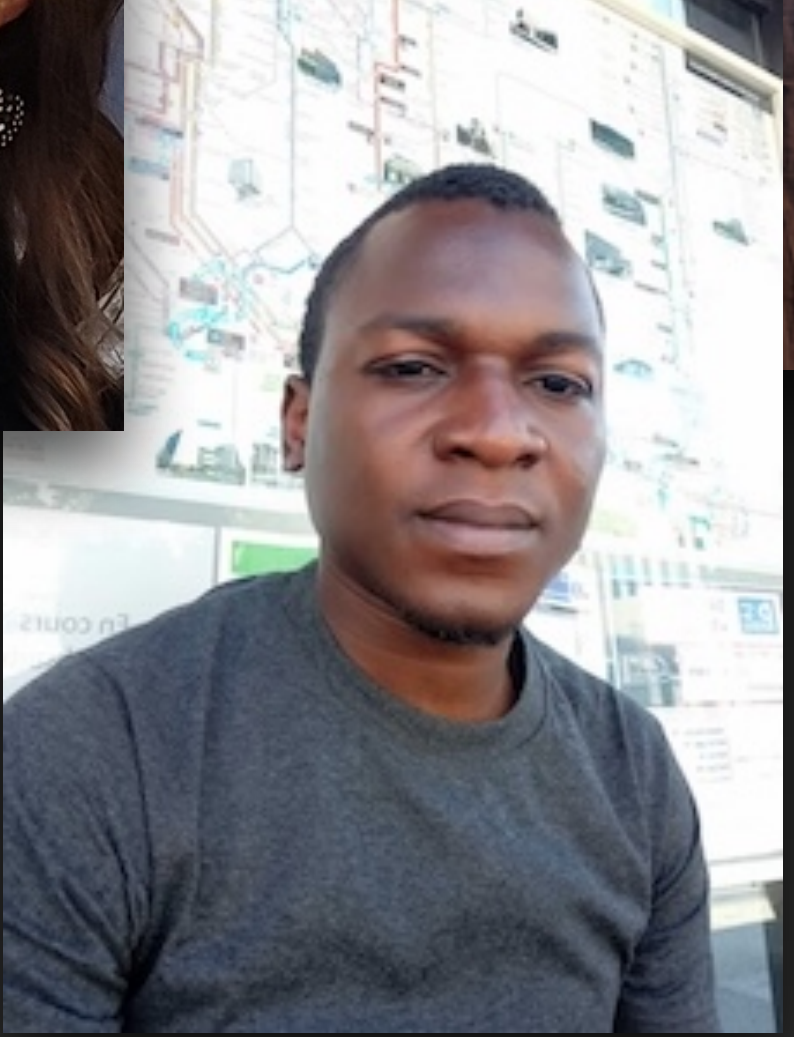
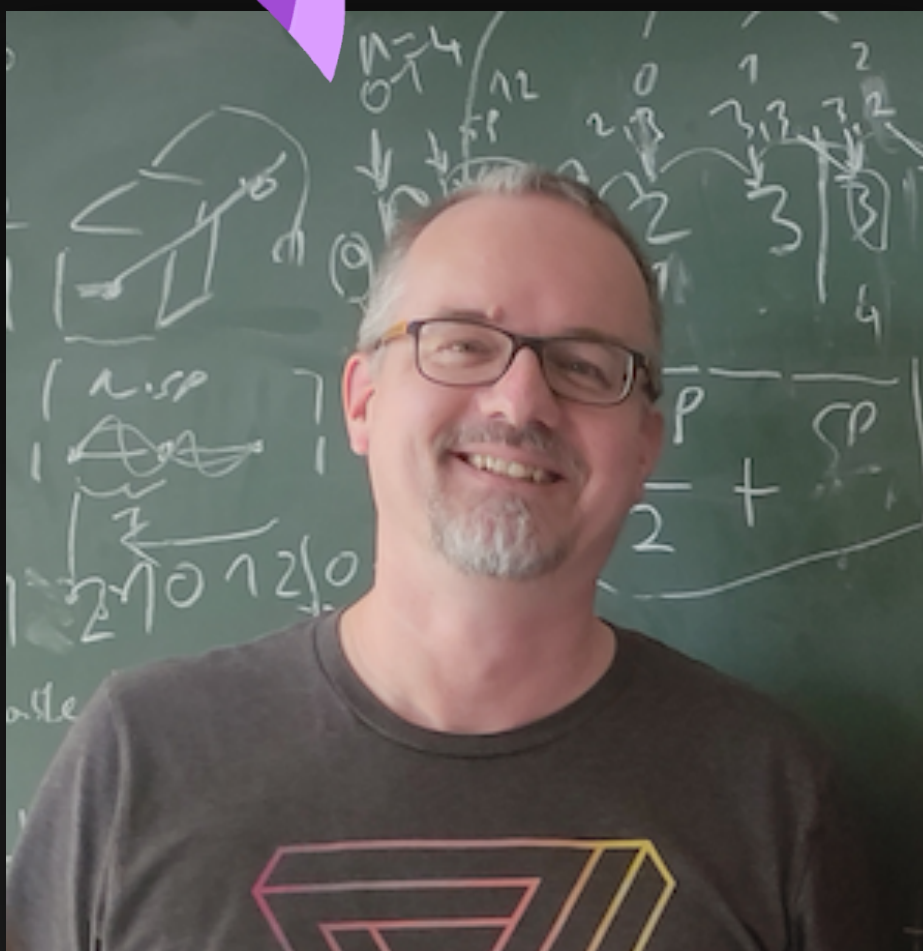




# Astro-COLIBRI



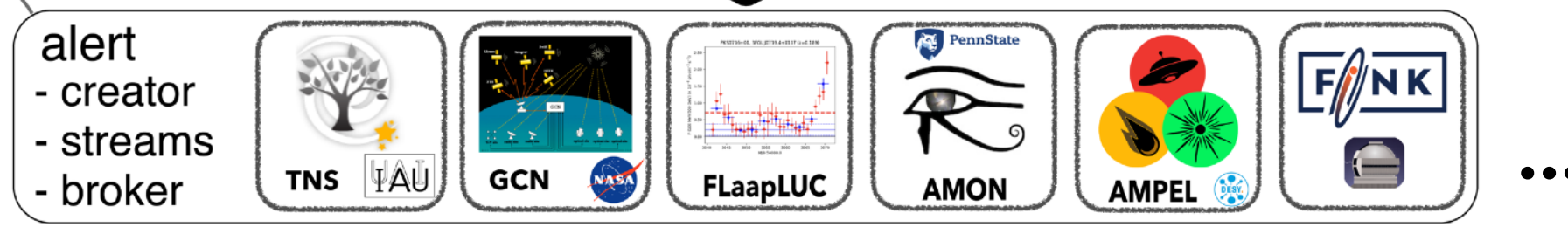
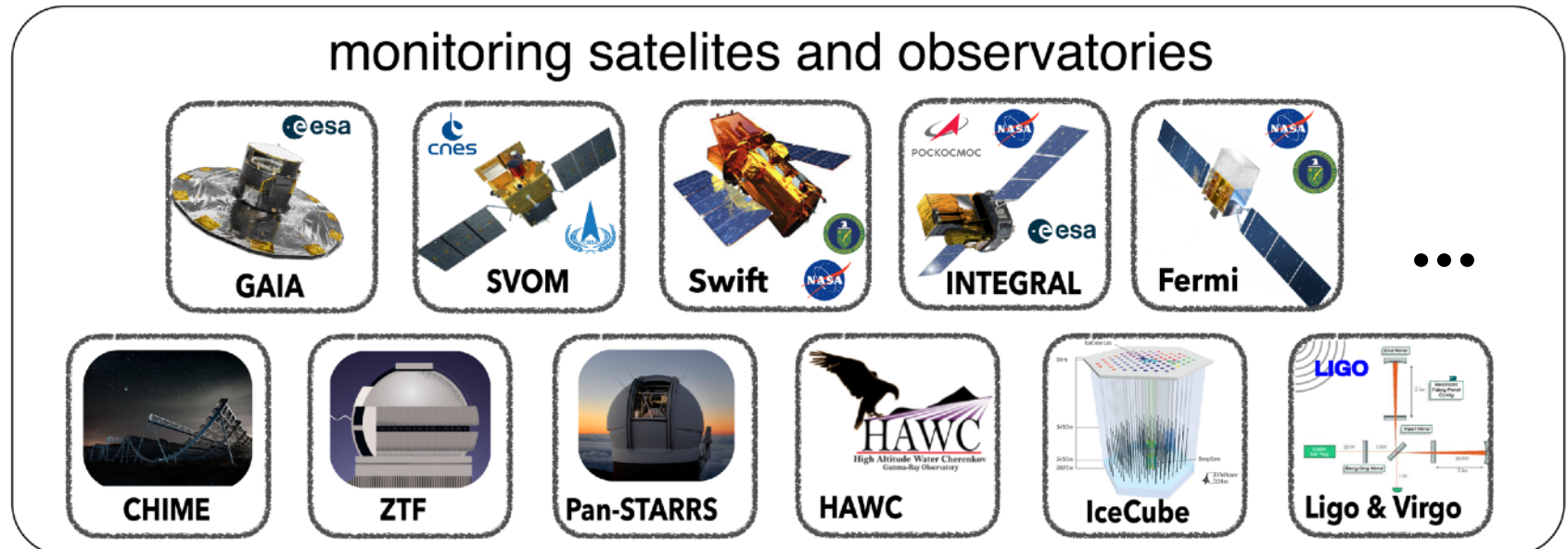
+ many contributions from the community

Fabian Schüssler (IRFU, CEA Paris-Saclay)





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



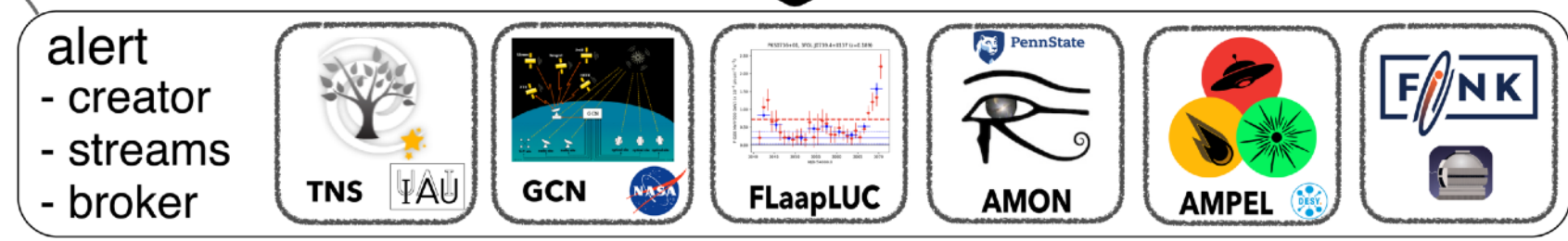
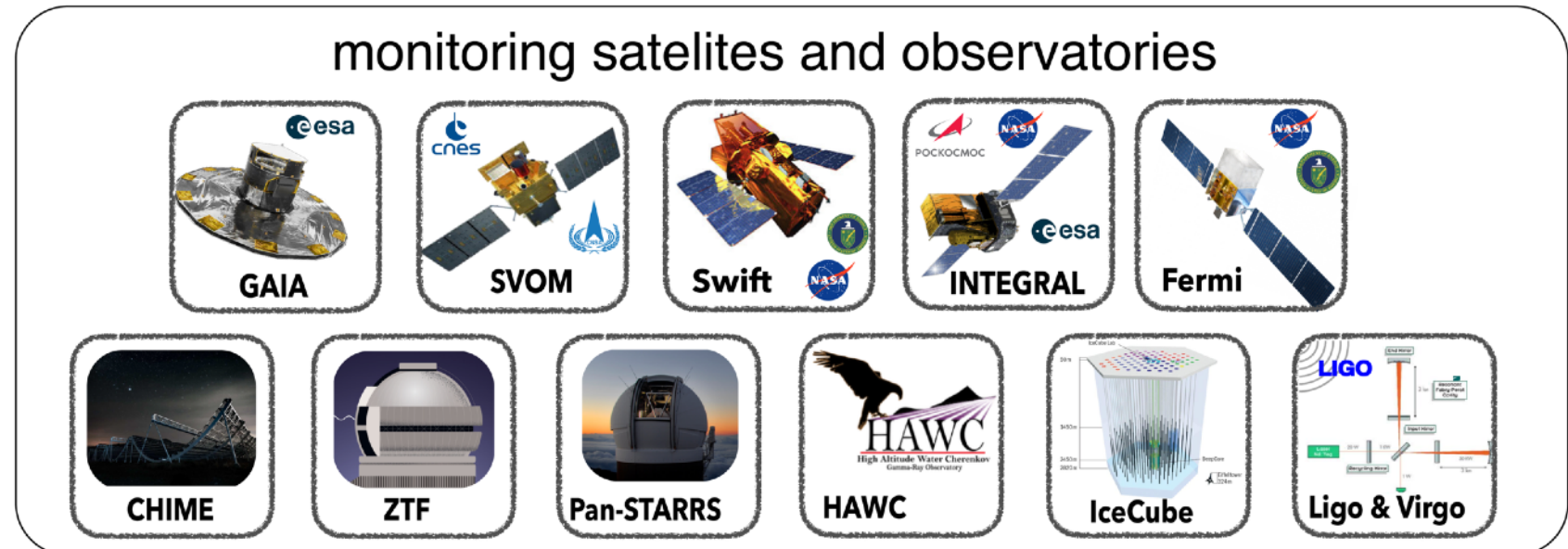
follow-up-observ.



# Improve time domain astrophysics



photons, GWs, v, (CRs)



follow-up-observ.



# 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)

The following new classification/s were reported on:

```

2021agrk RA=16:31:36.210, DEC=+13:38:14.93, Classification=SN II, Redshift=0.0011
group: ePESSTO+
2022dkw RA=14:35:50.295, DEC=+24:40:58.20, Classification=SN IIn, Redshift=0.0011
group: ePESSTO+
2022dlf RA=13:24:06.914, DEC=-00:41:34.50, Classification=SN Ia-91T-like, Redshift=0.0011
Source group: ePESSTO+
2022dsu RA=14:05:30.767, DEC=+15:43:15.52, Classification=SN Ia-91bg-like, Redshift=0.0011
Source group: ePESSTO+
2022efq RA=16:40:11.111, DEC=+13:38:14.93, Classification=SN II, Redshift=0.0011
group: ePESSTO+
2022ehu RA=20:11:11.111, DEC=+13:38:14.93, Classification=SN II, Redshift=0.0011
group: ePESSTO+
2022eml RA=10:22:22.222, DEC=+13:38:14.93, Classification=SN II, Redshift=0.0011
group: ePESSTO+
2022enc RA=14:44:44.444, DEC=+13:38:14.93, Classification=SN II, Redshift=0.0011
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
    }
  ]
}

```

**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., 2024) on 2024-12-13. The optical counterpart was detected at a magnitude of 23.70 +/- 0.30 in VT\_R. No simultaneous channel VT\_B.

The Space Variable Objects Monitor (SVOM) is a Chinese satellite mission for the study of high-energy transient phenomena in the energetic universe. VT is a high-speed optical transient detector on board SVOM, which is designed to detect and monitor high-speed optical transients.

**BHTOM Targets for 22 September, 2025**

wyrzykow@gmail.com

an bhtomtargers

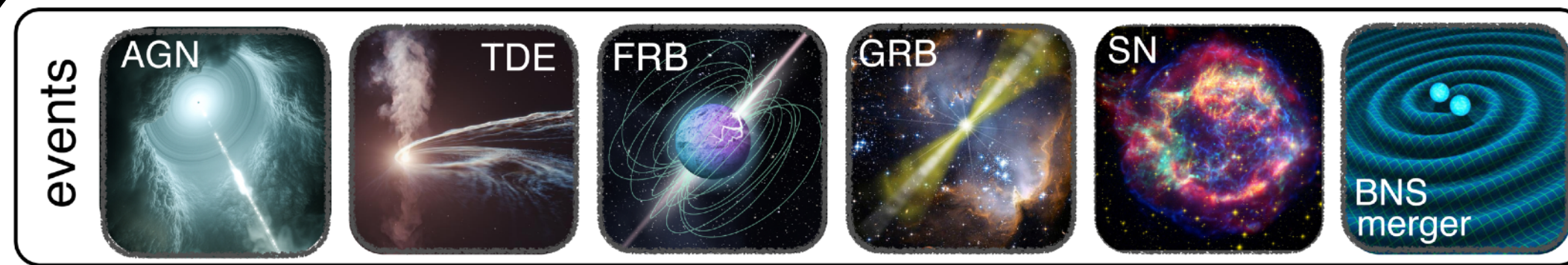
Hello,

Greetings from the BHTOM Automated Newsletter!

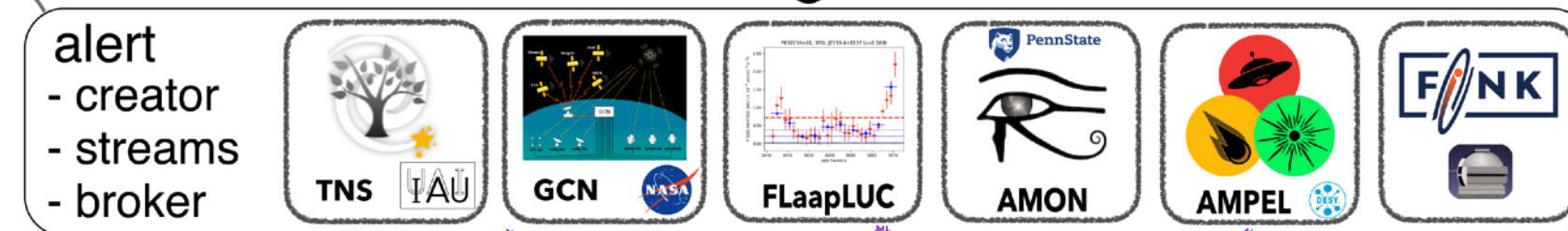
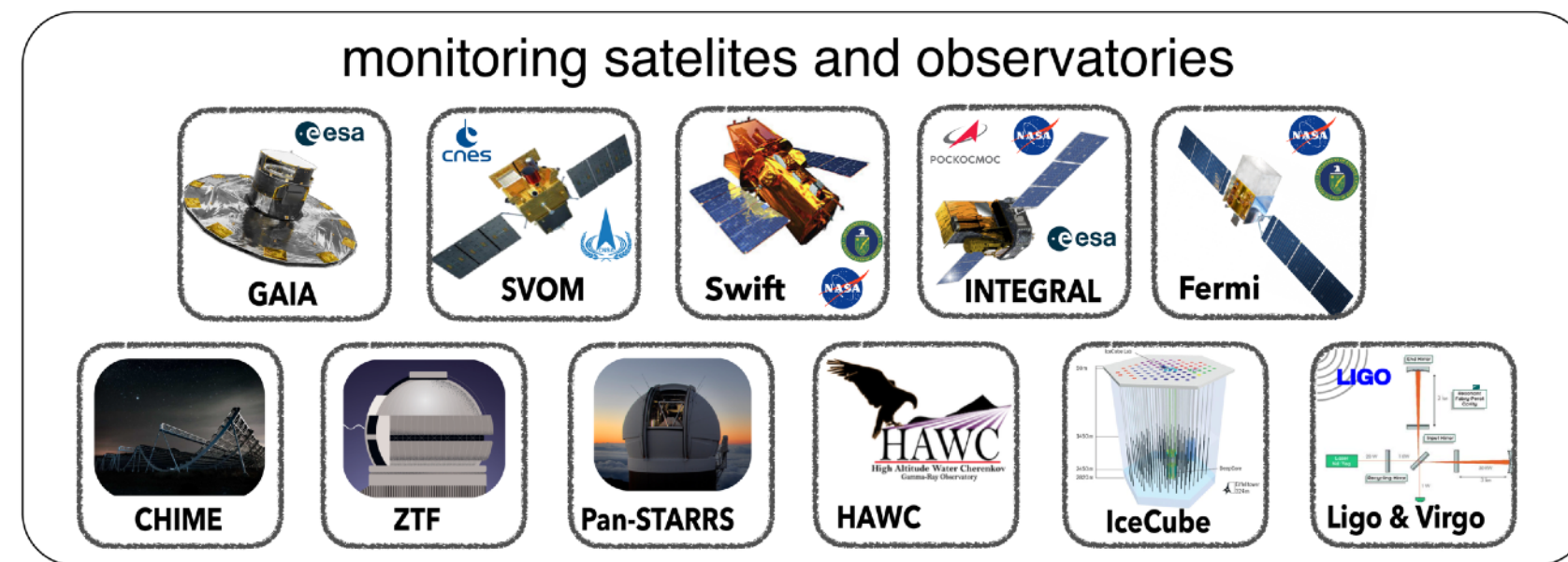
As of 2025-09-22 10:05:35.180466+00:00, these are the new targets added in the last week for observing (importance>=1), sorted by magnitude:

| 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     |

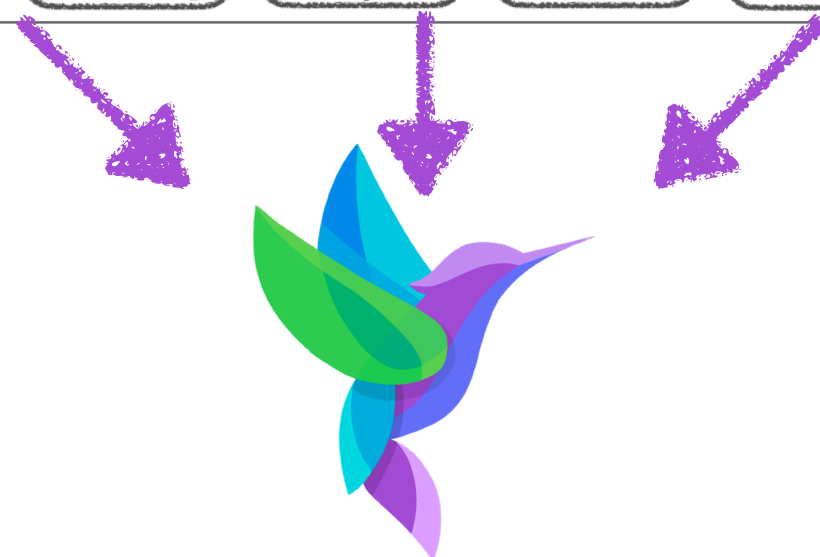
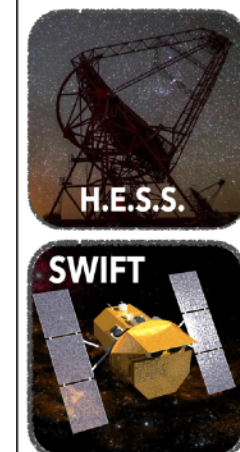
In addition, here are some older targets that are currently visible and requested for observations. These targets have an importance>=4, a sun separation last magnitude<18, sorted by magnitude.



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

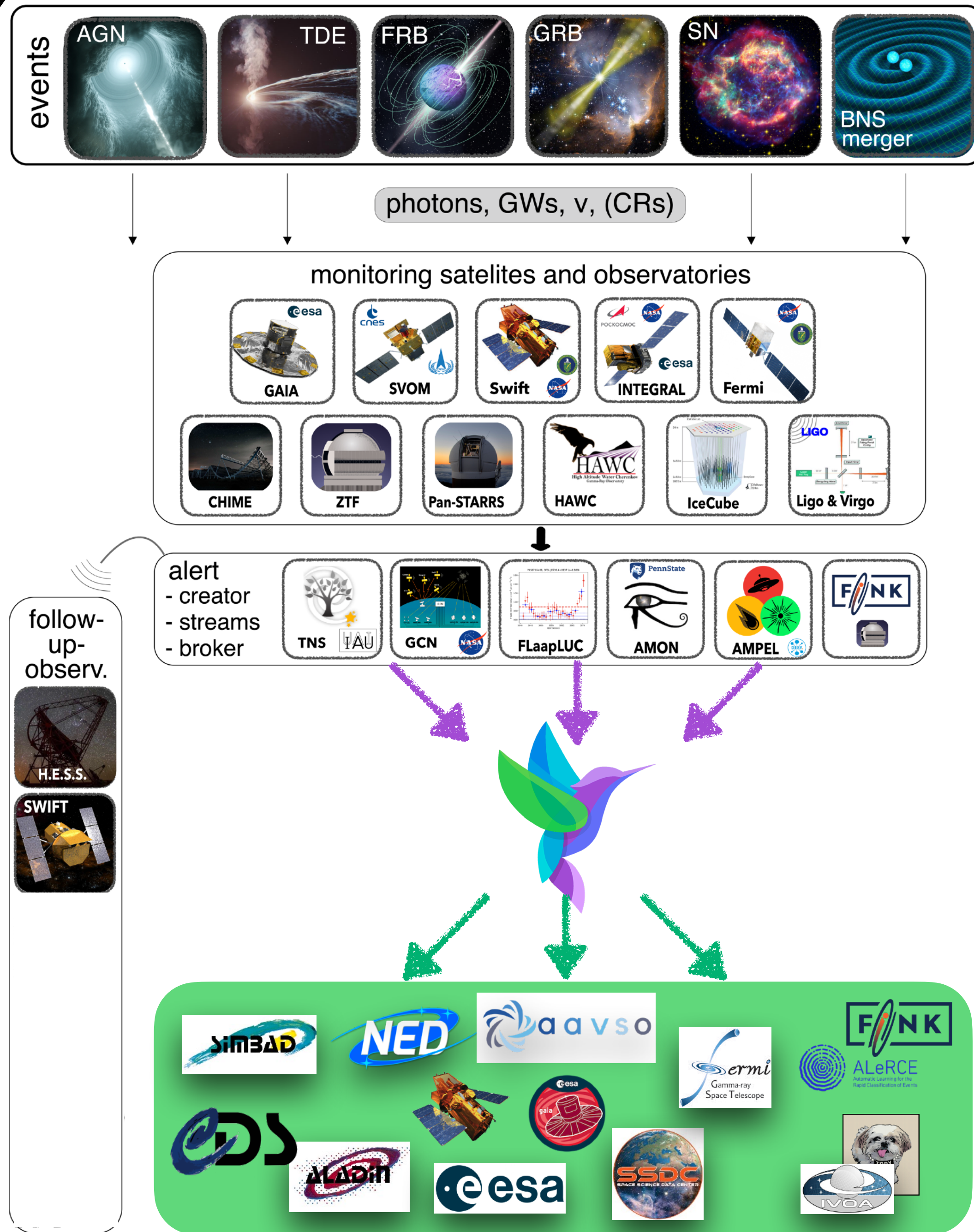


follow-up-observ.



Improve time domain astrophysics

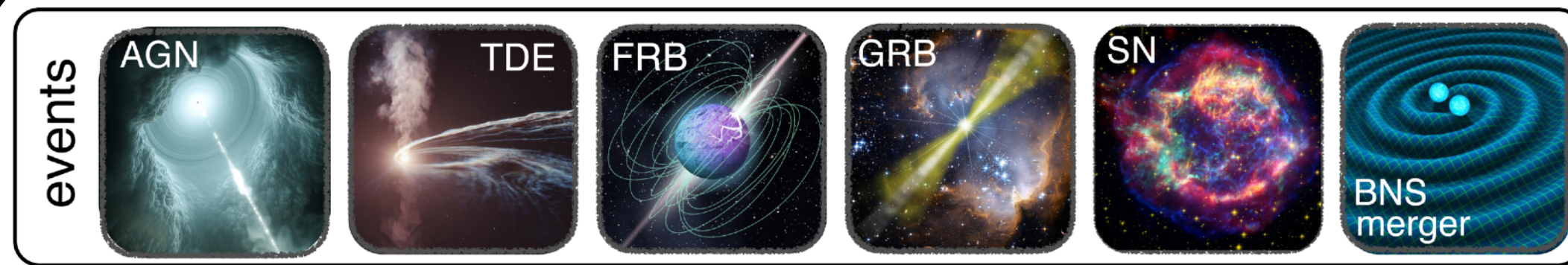
Summary of all publicly available alert channels



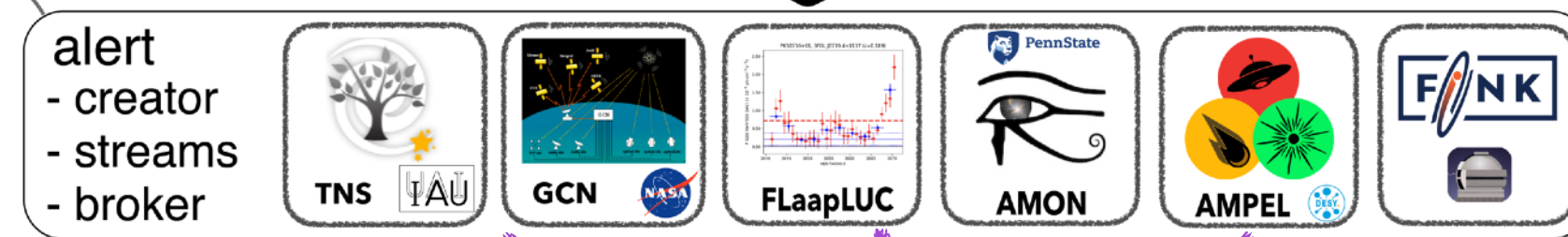
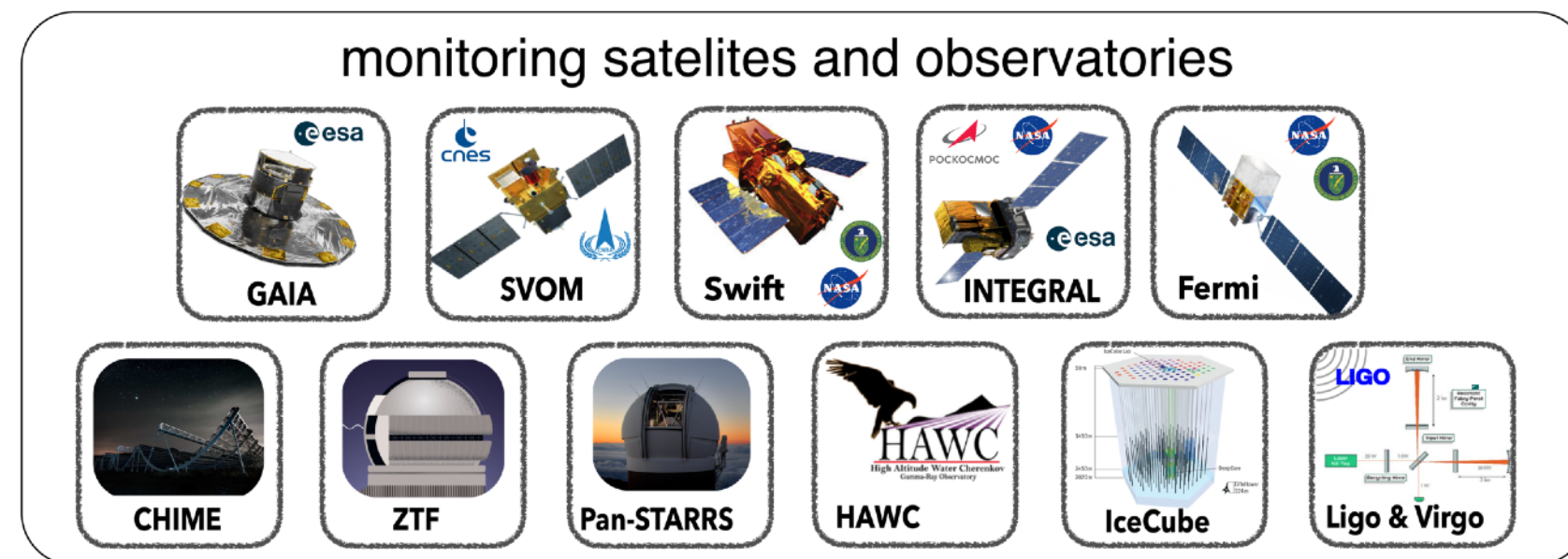
Improve time domain astrophysics

Summary of all publicly available alert channels

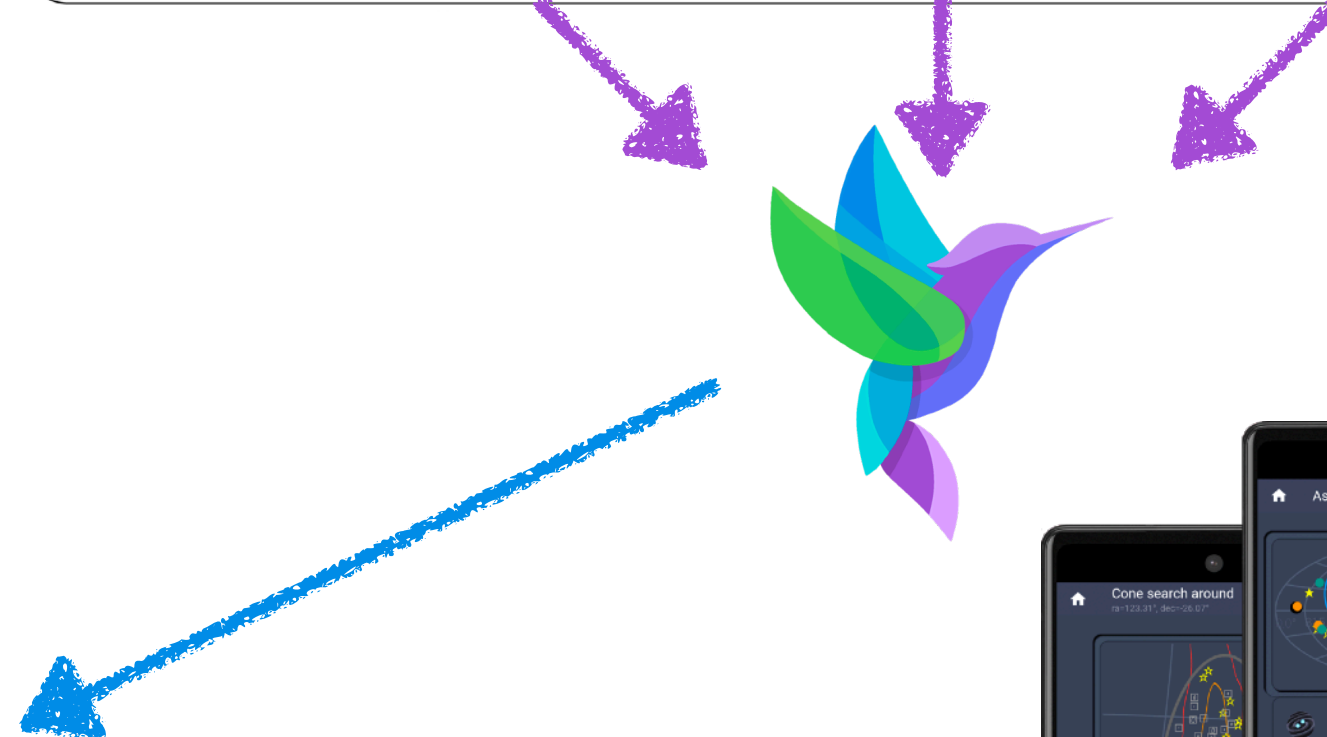
Complement existing platforms



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



follow-up-observ.



Download on the App Store

GET IT ON Google Play



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 events 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 displays three smartphone screens showing the Astro-COLIBRI mobile application. The first screen shows a 'Cone search' interface with a sky map and a list of nearby sources, including MS230110g, SN 2022bf, GRB 220103A, and HAWC-220103A. The second screen shows 'Source info' for GRB 220107A, displaying its location, detection time, and associated observatory. The third screen shows 'Visibility at H.E.S.S.' with a graph of altitude vs. hours from LUTC midnight and a monthly visibility heatmap for 2022.



<https://astro-colibri.science>





# Main interface

## Personalisation

**Astro-COLIBRI Science**

Personalize: [Icons for user, location, globe, moon, info]

Science mode:

Status: **logged in as fabian.sch** Infos:  v2.20.1

Observatories:  Swift  SVOM  HESS  Fermi  HAWC  IceCube  AMON  Integral  GECAM  FlaapLUC  LVC  Catalogs  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  GRB  burst  neutrino  nuem  GW  4FGL  TeVCat  X-ray  IceCat

2025-01-01 [edit] × [Timeline: 01-01 to 01-10]

**EP250109b Burst**  
RA/Dec: 118.63°/-14.64° (± 0.003°)  
2025-01-09 08:06:40

**S250109bi Gravitational wave**  
RA/Dec: 328.54°/-19.79°  
2025-01-09 07:45:52

**S250109bi NuTrack Neutrino**  
RA/Dec: 339.11°/-12.79° (± 0.430°)  
2025-01-09 07:43:22

**SN 2025np Supernova**  
RA/Dec: 133.07°/3.05°  
2025-01-09 07:35:32

**AT 2025hp Unclassified optical transient**

**S250109bi Gravitational wave**  
Cone search

Custom cone search  
source: S250109bi  
RA / Dec: 328.54° -19.79°  
error: < 0.00° >

Detailed info about selected source:  
VoEvent: XML VoEvent: JSON History: #0 #1 #2 #3  
last modified: 2025-01-10 14:57:12 Archive: v  
name: S250109bi  
detection time: 2025-01-09 07:45:52  
RA [deg]: 328.535 Dec [deg]: -19.788  
RA : 21h54m8.437s Dec : -19d47m16.978s  
sun distance [deg]: 34.645  
E(B-V) [mag]: 0.036  
observatory: LVC instrument: H1,V1 discovery name: S250109bi  
notice: Update pipeline: gstlal  
classification: BBH: 0.98 / Noise: 0.02  
FAR: 0.65/yr → significant event  
distance: 2255 ± 734 Mpc  
50% area: 362 deg<sup>2</sup> 90% area: 2819 deg<sup>2</sup>  
Lightcurve: v

Search for ATels

Discuss this event in our forum: [forum icon]

Schedule

Start follow-up campaigns: [click here] [auto s]

- GraceDB: Information on the gravitational wave event
- TreasureMap: Follow-ups of GW events
- NASA GCN Viewer: Access to GCN notices and circulars
- NASA GCN-n: GCN notices: rapid alert message
- GW\_Fermi-LAT: Analysis of GW events
- NEA SIME: Astrc Data



# Communication

Share link to this event

Discuss in the Astro-COLIBRI forum

**Astro-COLIBRI** Science

Personalize: Science mode:  Status: **logged in as fabian.sch** Infos:  v2.20.1

Observatories:  Swift  SVOM  HESS  Fermi  HAWC  IceCube  AMON  Integral  GECAM  FlaapLUC  LVC  Catalogs  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  GRB  burst  neutrino  nuem  GW  4FGL  TeVCat  X-ray  IceCat  General

2025-01-01 × 2025-01-10

**EP250109b** Burst

RA/Dec: 118.63°/-14.64° ( $\pm 0.003^\circ$ )  
2025-01-09 08:06:40

**S250109bi** Gravitational wave

[Cone search](#)

RA/Dec: 328.54°/-19.79°  
2025-01-09 07:45:52

**S250109bi NuTrack** Neutrino

RA/Dec: 339.11°/-12.79° ( $\pm 0.430^\circ$ )  
2025-01-09 07:43:22

**SN 2025np** Supernova

RA/Dec: 133.07°/3.05°  
2025-01-09 07:35:32

**AT 2025hp** Unclassified optical transient

Custom cone search

source:

RA / Dec:

error:

Detailed info about selected source:

VoEvent : [XML](#) VoEvent : [JSON](#) History: #0 #1 #2 #3

last modified: 2025-01-10 14:57:12 Archive:

name: [S250109bi](#)

detection time: 2025-01-09 07:45:52

RA [deg] :  Dec [deg] :

RA :  Dec :

sun distance [deg] :

E(B-V) [mag] :

observatory: [LVC](#) instrument: [H1,V1](#) discovery name: [S250109bi](#)

notice: [Update](#) pipeline: [gstlal](#)

classification: [BBH: 0.98 / Noise: 0.02](#)

FAR:  → significant event

distance:

50% area:  90% area:

Lightcurve:

[Search for ATels](#)

Discuss this event in our forum

[Schedule](#)

Visibility at H.E.S.S. S250109bi <https://astro-colibri.com>

Start follow-up campaigns:   auto s

**GraceDB**  
Information on the gravitational wave event

**TreasureMap**  
Follow-ups of GW events

**GCN Viewer**  
Access to GCN notices and circulars

**GCN-n**  
GCN notices: rapid alert message

**GW\_Fermi-LAT**  
Analysis of GW events

**NEA**  
SIME Astr Data

<https://astro-colibri.com>



# Cone searches

**Astro-COLIBRI Science**

Personalize: [Icons] Science mode: [On] Status: logged in as fabian.sch Infos: v2.20.1

Observatories: Swift, SVOM, HESS, Fermi, HAWC, IceCube, AMON, Integral, GECAM, FlaapLUC, LVC, Catalogs, Other

Event type: FRB, Unclassified OT, Classified OT, SN, GRB, burst, neutrino, nuem, GW, 4FGL, TeVCat, X-ray, IceCat

2025-01-01 [Calendar icons] 2025-01-10

### EP250109b Burst

RA/Dec: 118.63°/-14.64° (± 0.003°)  
2025-01-09 08:06:40

### S250109bi Gravitational wave

RA/Dec: 328.54°/-19.79°  
2025-01-09 07:45:52

### S250109bi NuTrack Neutrino

RA/Dec: 339.11°/-12.79° (± 0.430°)  
2025-01-09 07:43:22

### SN 2025np Supernova

RA/Dec: 133.07°/3.05°  
2025-01-09 07:35:32

### AT 2025hp Unclassified optical transient

### S250109bi Gravitational wave

Cone search

Custom cone search  
source: S250109bi  
RA / Dec: 328.54° -19.79°  
error: < 0.00° >

### Cone-search in catalogs

### Detailed info about selected source:

VoEvent: XML, JSON History: #0 #1 #2 #3  
last modified: 2025-01-10 14:57:12 Archive: [Dropdown]  
name: S250109bi  
detection time: 2025-01-09 07:45:52  
RA [deg]: 328.535 Dec [deg]: -19.788  
RA : 21h54m8.437s Dec : -19d47m16.978s  
sun distance [deg]: 34.645  
E(B-V) [mag]: 0.036  
observatory: LVC instrument: H1,V1 discovery name: S250109bi  
notice: Update pipeline: gstlal  
classification: BBH: 0.98 / Noise: 0.02  
FAR: 0.65/yr → significant event  
distance: 2255 ± 734 Mpc  
50% area: 362 deg² 90% area: 2819 deg²  
Lightcurve: [Dropdown]

Search for ATels

Discuss this event in our forum: [Forum icon]

Schedule

Visibility at H.E.S.S. S250109bi

Start follow-up campaigns: [Progress bar] auto s

- GraceDB: Information on the gravitational wave event
- TreasureMap: Follow-ups of GW events
- NASA GCN Viewer: Access to GCN notices and circulars
- NASA GCN-n: GCN notices: rapid alert message
- GW\_Fermi-LAT: Analysis of GW events
- NEA SIME: Astrc Data



# External platforms

The screenshot displays the Astro-COLIBRI interface with several external platform logos highlighted in purple boxes and connected to event data by green arrows. The logos include:

- Simbad** (top left)
- NED** (top left)
- TNS** (top left)
- GCN** (top left)
- Swift** (top left)
- GraceDB** (middle left)
- AAVSO** (middle right)
- ALADIN** (bottom left)
- ESA sky** (bottom left)
- Blast** (bottom left)
- SSDC** (bottom left)
- TOBY** (bottom left)

The interface also shows event details for S250109bi, including RA/Dec coordinates, detection time, and classification. A detailed info panel on the right provides further data for the selected source. At the bottom, a section titled "Start follow-up campaigns:" lists various tools and services like GraceDB, TreasureMap, GCN Viewer, GCN-n, GW\_Fermi-LAT, and SIMe Astrc Data.

<https://astro-colibri.com>



# Lightcurves

Astro-COLIBRI  
Science

Personalize: Science mode:  Status: logged in as fabian.sch Infos: ✓ v2.23.0

Observatories:  Swift  SVOM  HESS  Fermi  HAWC  IceCube  AMON  Integral  GECAM  FLAAPLUC  LVC  Catalogs  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  GRB  burst  neutrino  nuem  GW  4FGL  TeVCat  X-ray  IceCat

General

2025-01-01 × 2025-01-12

- SN 2025dr**  
Supernova  
RA/Dec: 16.69°/75.60°  
2025-01-06 06:24:32
- SN 2025gm**  
Supernova  
RA/Dec: 119.31°/-19.67°  
2025-01-06 04:54:27
- GRB 250106A**  
Gamma-ray burst  
RA/Dec: 117.15°/63.77° (± 0.147°)  
2025-01-06 02:29:19
- AT 2025gu**  
Unclassified optical transient  
RA/Dec: 333.66°/32.66°  
2025-01-06 02:17:13
- 3EGJ0450+1105**  
GeV flare

**SN 2025dr**  
Supernova  
[Cone search](#)

Custom cone search

Source: SN 2025dr

RA/Dec:

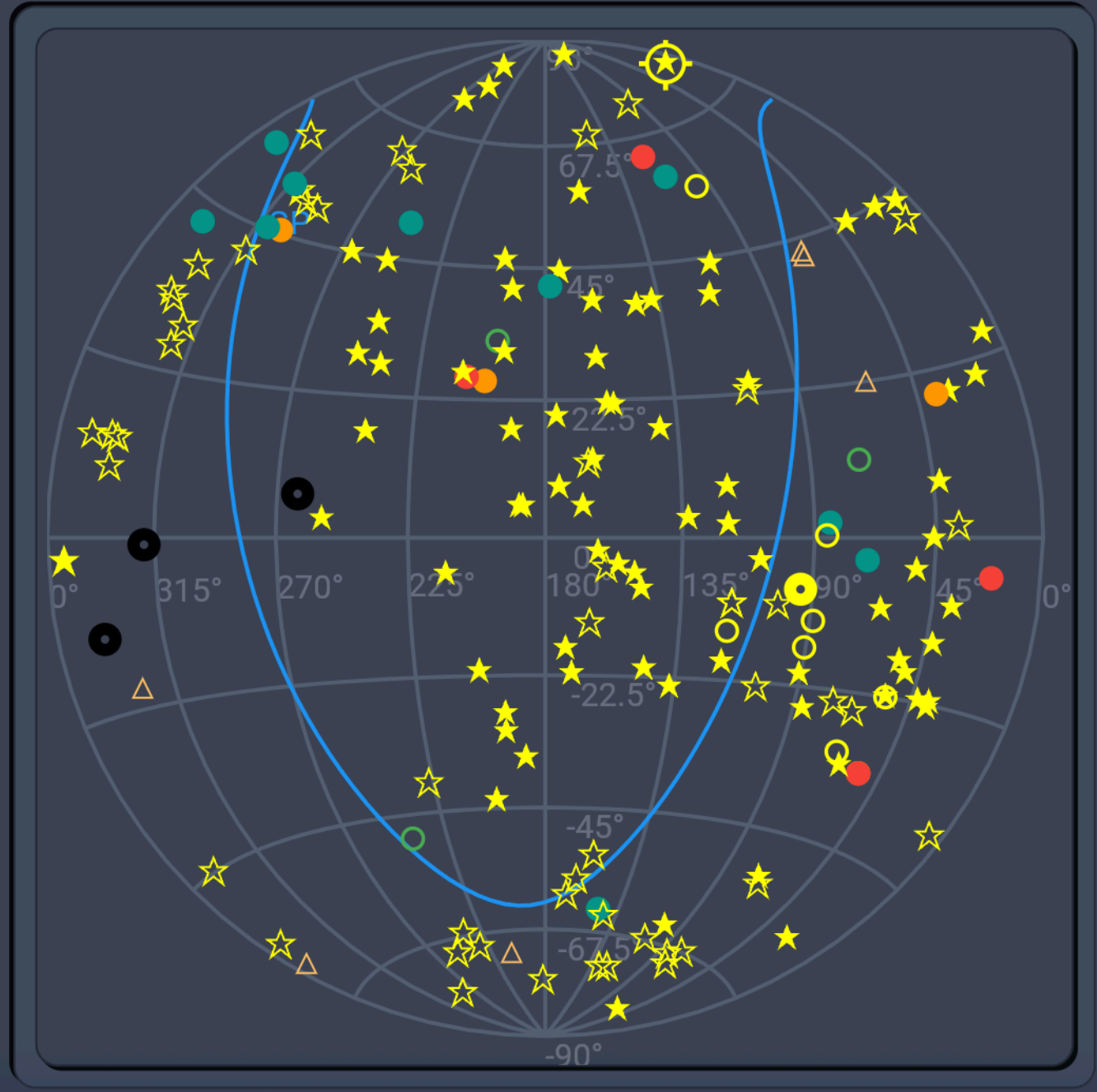
localisation:  
RA [deg] : 16.692  Dec [deg] : 75.603   
RA : 1h6m46.083s  Dec : 75d36m12.109s   
sun distance [deg] : 111.635   
E(B-V) [mag] : 0.374   
detection: 18.91 mag   
classification: SN Ia  redshift: 0.016   
broker: TNS  
Host galaxy (WISE):   
Lightcurve:

Select time range:

show ATLAS  
 show ZTF  
 show ASAS-SN

[get lightcurve](#)

Download lightcurve data: [link](#)



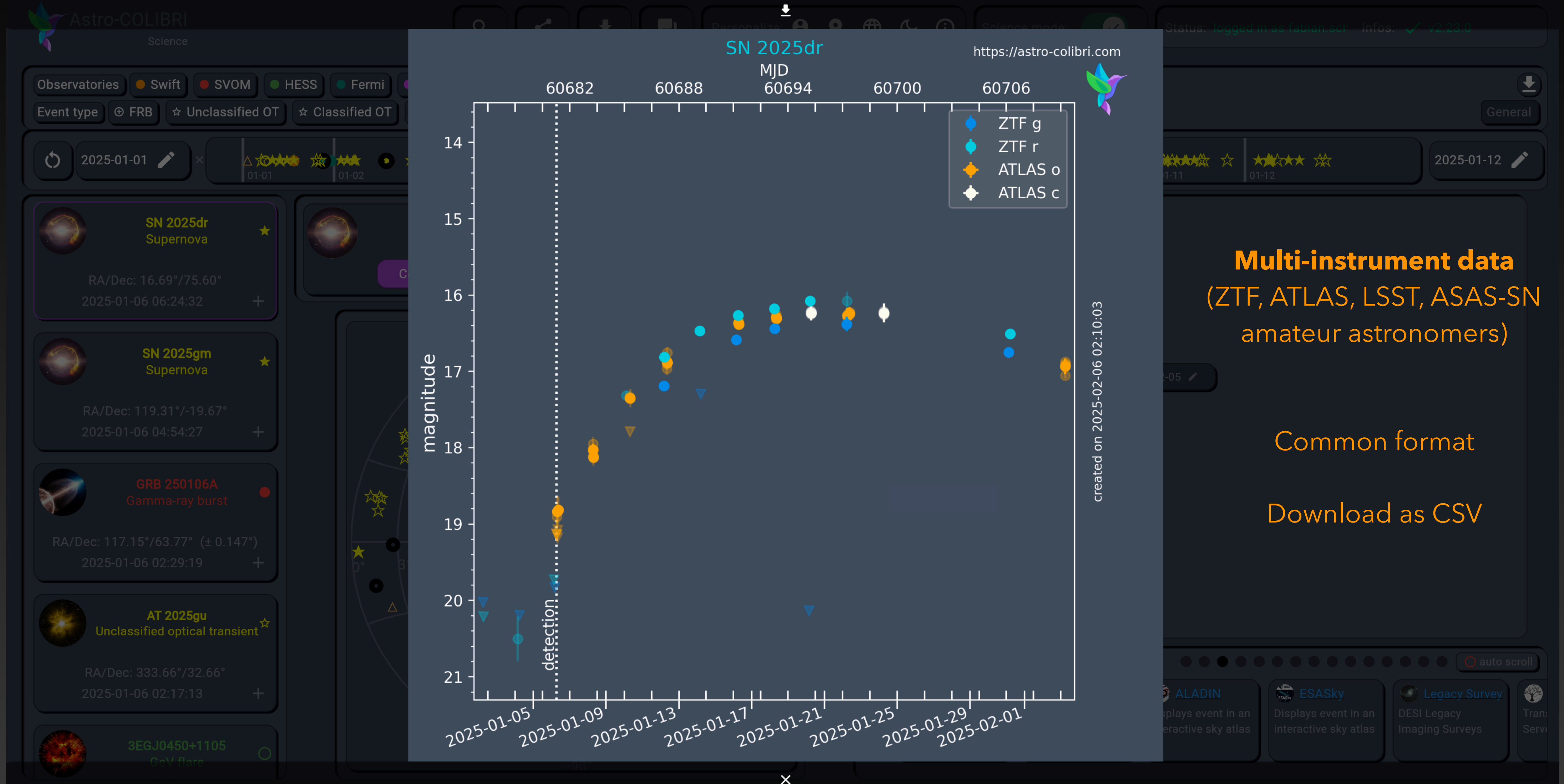
Updated twice per day  
or  
On-demand

Start follow-up campaigns: [click here](#)  auto scroll

- SIMBAD**  
Astronomical Database
- 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
- Transients**



# Lightcurves



**Multi-instrument data**  
(ZTF, ATLAS, LSST, ASAS-SN  
amateur astronomers)

Common format

Download as CSV



# Observability

## Observatory selection

**Astro-COLIBRI** Science

Personalize: Science mode:

Status: **logged in as fabian.sch** Infos:  v2.20.1

Observatories:  Swift  SVOM  HESS  Fermi  HAWC  IceCube  AMON  Integral  GECAM  FlaapLUC  LVC  Catalogs  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  GRB  burst  neutrino  nuem  GW  4FGL  TeVCat  X-ray  IceCat

2025-01-01 × 2025-01-10

**EP250109b**  
Burst

RA/Dec: 118.63°/-14.64° ( $\pm 0.003^\circ$ )  
2025-01-09 08:06:40

**GRB 250108B**  
Gamma-ray burst

[Cone search](#)

Custom cone search

source: **GRB 250108B**

RA / Dec: **201.33° 25.61°**

error: **< 0.00° >**

follow-up: RAPAS  
notice: XRT\_Pos  
redshift: 2.197  
comment: redshift z = 2.197 (GMOS-N@Gemini-North, GCN #38877)  
Lightcurve:

[Search for ATels](#)

This event is being discussed in our forum:

[Swift-XRT lightcurve](#)

date: 2025-01-30

**Daily**

Multi Obs.

Monthly

weather: [forecast](#) [seeing](#)

sky view: [HeavensAbove](#)

Start follow-up campaigns: [click here](#)  auto s

**GCN #38877**  
Follow link for further information.

**GCN Viewer**  
Access to GCN notices and circulars

**GCN-n**  
GCN notices: rapid alert message

**Swift**  
Overview of this Swift detected GRB

**BAT**  
Analysis results of Swift-BAT

**Anal**  
Swift

<https://astro-colibri.com>



# Observation plans (e.g. GWs)

Astro-COLIBRI Science

Personalize: [Icons] Science mode: [On] Logged in: [fabian.schussler@cea.fr](mailto:fabian.schussler@cea.fr) Infos: ✓ v2.28.0

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

Event type: FRB Unclassified OT Classified OT SN star GRB burst neutrino nuem GW 4FGL TeVCat X-ray IceCat

2025-02-01 [Calendar icons]

RA/Dec: 144.84°/2.24°  
2025-02-05 01:30:00

**S250205bk**  
Gravitational wave  
Latest transients

Custom cone search  
Source: S250205bk  
RA/Dec: deg 141.33° -4.63°

tilepy S250205bk\_tile\_004  
tilepy  
RA/Dec: 137.46°/-10.96°  
2025-02-05 02:00:00

tilepy S250205bk\_tile\_005  
tilepy  
RA/Dec: 146.43°/5.68°  
2025-02-05 02:30:00

tilepy S250205bk\_tile\_006  
tilepy  
RA/Dec: 141.86°/-2.69°  
2025-02-05 03:00:00

**S250205bk**  
Gravitational wave  
RA/Dec: 141.33°/-4.63°  
2025-02-05 10:35:41

157.5° 135°

It covers 90.6 % of the GW localisation uncertainty region.

date: 2025-02-05  
time: 0:00

Daily  
Multi-source  
Multi Obs.  
Longterm  
Observation Planning (tilepy)

| ID                 | coverage [%] | RA [deg°] | Dec [deg] |
|--------------------|--------------|-----------|-----------|
| S250205bk_tile_000 | 29.52        | 141.328   | -4.630    |
| S250205bk_tile_001 | 20.89        | 143.262   | -1.194    |
| S250205bk_tile_002 | 17.90        | 139.570   | -7.933    |
| S250205bk_tile_003 | 10.67        | 144.844   | 2.239     |
| S250205bk_tile_004 | 5.61         | 137.461   | -10.959   |

weather: forecast seeing

Admin Section: [Dropdown]

Start follow-up campaigns: [click here](#) [Progress bar] auto scroll

GraceDB: Information on the gravitational wave event  
TreasureMap: Follow-ups of GW events  
GCN Viewer: Access to GCN notices and circulars  
GCN-c: GCN circulars: announcements of new transient  
GCN-n: GCN notices: rapid alert message

Optimal observation plans for poorly localised transients using the tilepy platform ([tilepy.com](https://tilepy.com))



# Campaign planning

**Astro-COLIBRI** Science

Personalize: [Icons] Science mode: [On] Status: logged in as fabian.sch Infos: v2.20.1

Observatories: Swift, SVOM, HESS, Fermi, HAWC, IceCube, AMON, Integral, GECAM, FlaapLUC, LVC, Catalogs, Other

Event type: FRB, Unclassified OT, Classified OT, SN, GRB, burst, neutrino, nuem, GW, 4FGL, TeVCat, X-ray, IceCat

2025-01-01 [Calendar icons] 2025-01-10

**EP250109b**  
Burst  
RA/Dec: 118.63°/-14.64° (± 0.003°)  
2025-01-09 08:06:40

**S250109bi**  
Gravitational wave  
RA/Dec: 328.54°/-19.79°  
2025-01-09 07:45:52

**S250109bi NuTrack**  
Neutrino  
RA/Dec: 339.11°/-12.79° (± 0.430°)  
2025-01-09 07:43:22

**SN 2025np**  
Supernova  
RA/Dec: 133.07°/3.05°  
2025-01-09 07:35:32

**AT 2025hp**  
Unclassified optical transient

**GRB 250108B**  
Gamma-ray burst

Custom cone search  
source: GRB 250108B  
RA / Dec: 201.33° 25.61°  
error: < 0.00° >

follow-up: RAPAS  
notice: XRT\_Pos  
redshift: 2.197  
comment: redshift z = 2.197 (GMOS-N@Gemini-North, GCN #38877)  
Lightcurve: [v]

Search for ATels

This event is being discussed in our forum: [Forum icon]

Swift-XRT lightcurve

date: 2025-01-30

Daily  
**Multi Obs.**  
Monthly

weather: forecast seeing  
sky view: HeavensAbove

ALMA   
ASKAP   
ATCA   
Gemini North   
Gemini South

Compute

Start follow-up campaigns: click here [dots] auto s

**GCN #38877**  
Follow link for further information.

**GCN Viewer**  
Access to GCN notices and circulars

**GCN-n**  
GCN notices: rapid alert message

**Swift**  
Overview of this Swift detected GRB

**BAT**  
Analysis results of Swift-BAT

**Anal**  
Swift



# ToO submission

**Astro-COLIBRI** Science

Personalize: Science mode:  Status: **logged in as fabian.sch** Infos:  v2.20.1

Observatories:  Swift  SVOM  HESS  Fermi  HAWC  IceCube  AMON  Integral  GECAM  FlaapLUC  LVC  Catalogs  Other

Event type:  FRB  Unclassified OT  Classified OT  SN  GRB  burst  neutrino  nuem  GW  4FGL  TeVCat  X-ray  IceCat

2025-01-01 × 2025-01-10

**EP250109b** Burst

RA/Dec: 118.63°/-14.64° ( $\pm 0.003^\circ$ )  
2025-01-09 08:06:40

**GRB 250108B** Gamma-ray burst

[Cone search](#)

Custom cone search

source:

RA / Dec:

error:

follow-up: RAPAS

notice: XRT\_Pos

redshift: 2.197

comment: redshift z = 2.197 (GMOS-N@Gemini-North, GCN #38877)

Lightcurve:

[Search for ATels](#)

This event is being discussed in our forum:

[Swift-XRT lightcurve](#)

date: 2025-01-30

[Daily](#)

[Multi Obs.](#)

[Monthly](#)

weather: [forecast](#) [seeing](#)

sky view: [HeavensAbove](#)

ALMA

ASKAP

ATCA

Gemini North

Gemini South

[Compute](#)

External platforms: [click here](#)

**H.E.S.S.**  
Submit a ToO to H.E.S.S.

**CTAO/LST**  
Submit a ToO to CTAO/LST

**RAPAS**  
Check the discussion of this event

**BHTOM**  
Submit the event to the BHTOM network

**S250109bi** Gravitational wave

RA/Dec: 328.54°/-19.79°  
2025-01-09 07:45:52

**S250109bi NuTrack** Neutrino

RA/Dec: 339.11°/-12.79° ( $\pm 0.430^\circ$ )  
2025-01-09 07:43:22

**SN 2025np** Supernova

RA/Dec: 133.07°/3.05°  
2025-01-09 07:35:32

**AT 2025hp** Unclassified optical transient

GRB 250108B (RA = 201.33; DEC = 25.61)

2025-01-30 2025-01-31

altitude (deg)

Hours from UTC midnight

Gemini North

LST

MeerKAT

VLT Paranal



# Astro-COLIBRI

- Overview of transient detections (optical transients, GRBs, FRBs, TDEs, high-energy neutrinos, GWs, etc.)
- interfaces: <https://astro-colibri.com> + Android + iOS
- API + documentation: <https://astro-colibri.science>
- Integration into the VO landscape (e.g. ALADIN)
- Forum: <https://forum.astro-colibri.science>
  
- Looking forward to include LISA alerts
  - Talk to us for preparatory work or other ideas!
  
- P. Reichherzer et al., ApJS 256, 2021 ([link](#)) + Galaxies 11, 2022 ([link](#))



# Astro-COLIBRI Multi-messenger Astrophysics workshops

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



Note the date:  
October 12-16, 2026

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



# Astro-COLIBRI

<https://astro-colibri.com>



<https://astro-colibri.science>





# Astro-COLIBRI

Contact: [astro.colibri@gmail.com](mailto:astro.colibri@gmail.com)

- Central webpage: [\*\*https://astro-colibri.science\*\*](https://astro-colibri.science)

Android Play Store



Apple iOS App Store



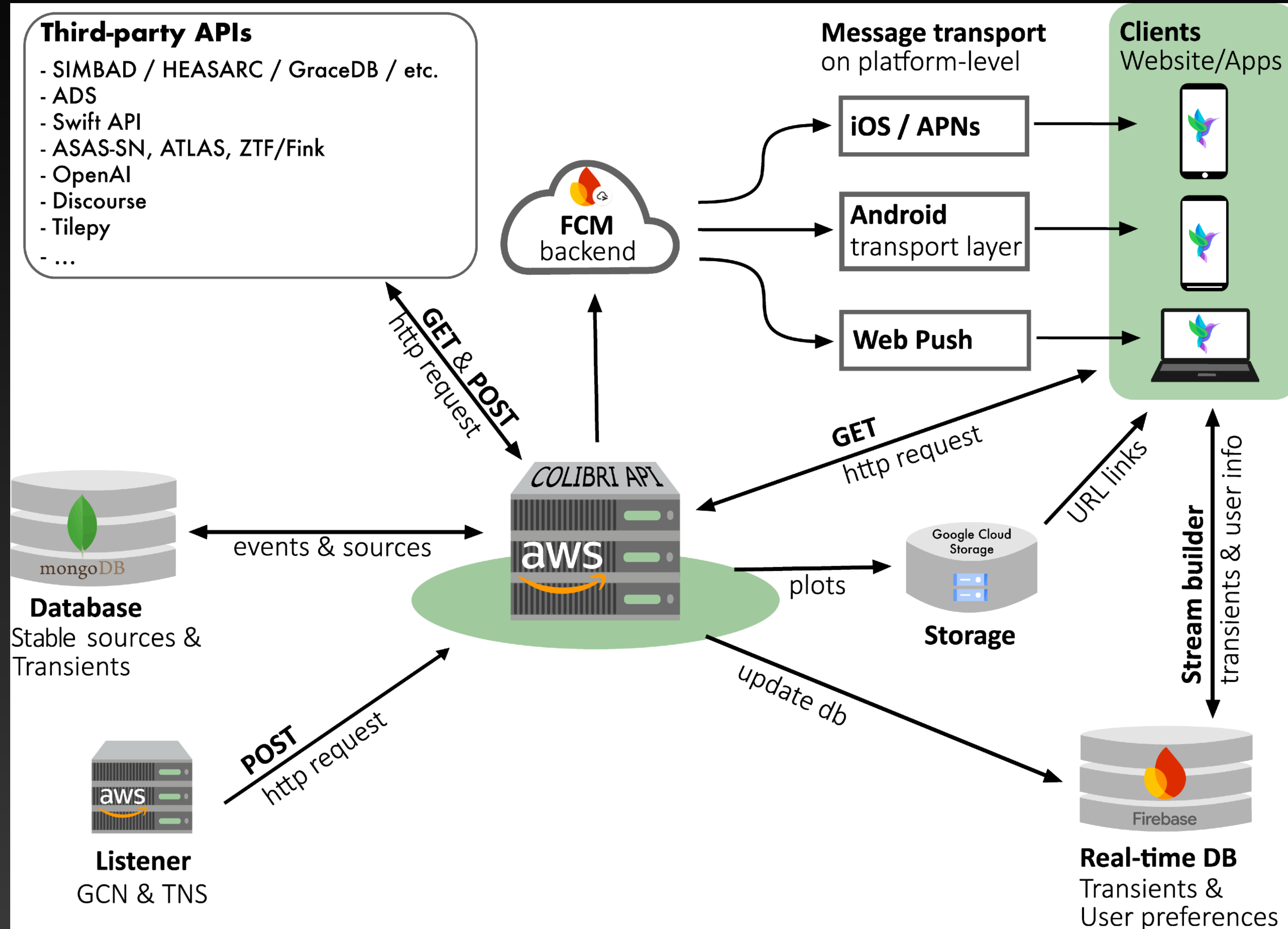
Introductions/tutorials on YouTube



[\*\*Mastodon, Insta, Threads\*\*](#)

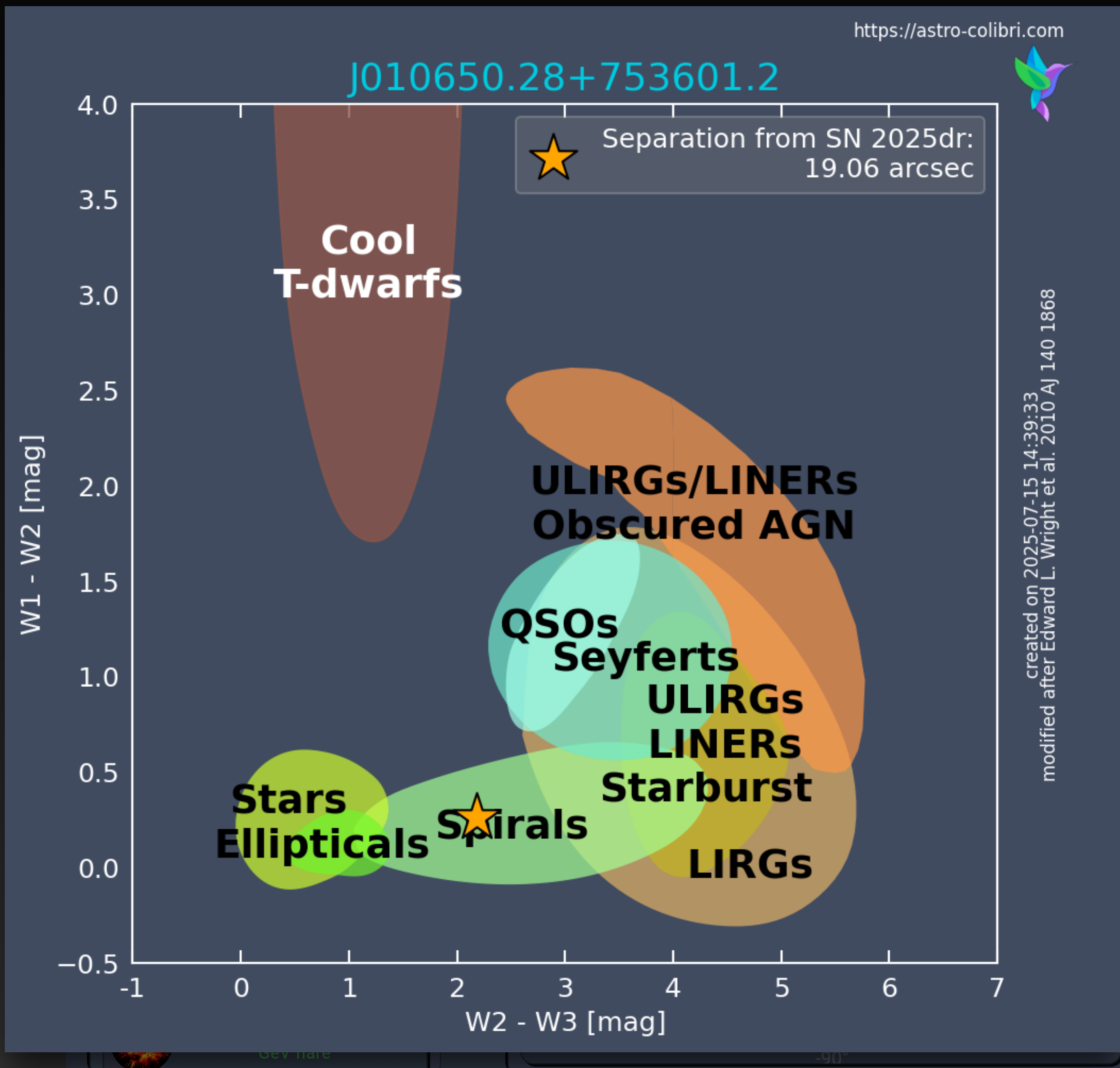


# Architecture





# Host galaxies



Science mode:  Status: logged in as fabian.sch Infos: ✓ v2.23.0

FLaapLUC LVC Catalogs Other

4FGL TeVCat X-ray IceCat

2025-01-12

Detailed info about selected source:

last modified: 2025-03-03 13:33:33 Archive: ▾

name: SN 2025dr

observatory: ATLAS discovery name: ATLAS25agc

detection time: 2025-01-06 06:24:32

localisation:  
RA [deg]: 16.692 Dec [deg]: 75.603  
RA : 1h6m46.083s Dec : 75d36m12.109s  
sun distance [deg]: 111.635  
E(B-V) [mag]: 0.374  
detection: 18.91 mag  
classification: SN Ia redshift: 0.016

Host galaxy (WISE): ^

get WISE color color plot

Lightcurve: ▾

Search for ATels

Start follow-up campaigns: click here auto scroll

SSDC Spectral energy distribution (SED) of the selected sky

BLAST Host galaxies of astrophysical transients

DAS Data Aggregation Service

SNAD Web portal for ZTF detected objects (DR13)

Ext. Dust extinction calculator for various filters

Sche visib obse