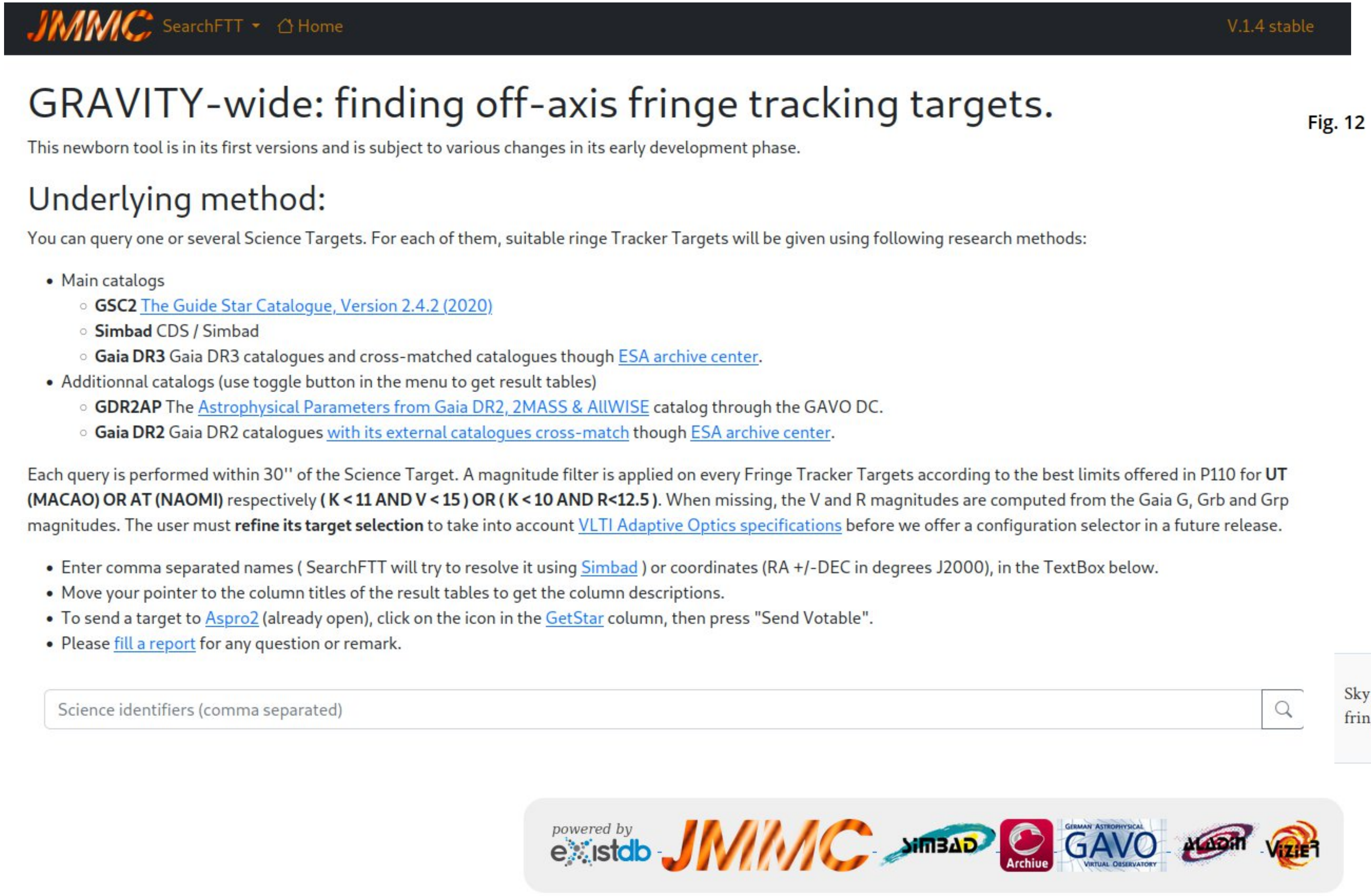
JMMC

SearchFTT

AG JMMC
19-20 janvier 2023
Grenoble

Une interface simple pour



GRAVITY-wide: finding off-axis fringe tracking targets.

This newborn tool is in its first versions and is subject to various changes in its early development phase.

Underlying method:

You can query one or several Science Targets. For each of them, suitable ringe Tracker Targets will be given using following research methods:

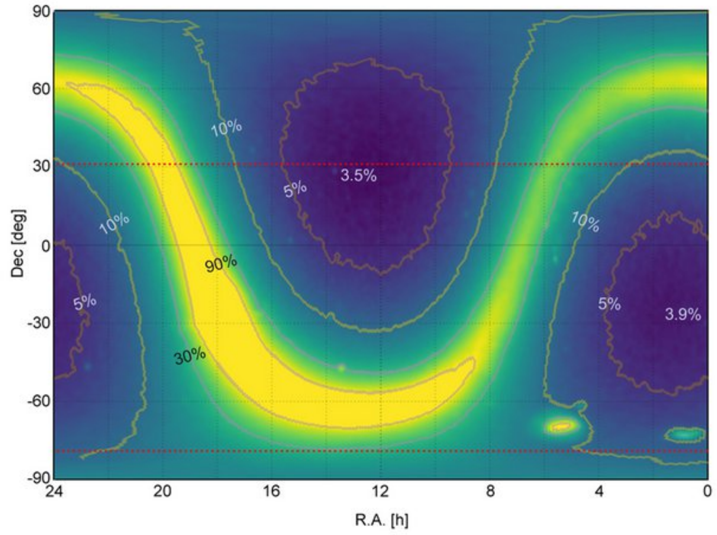
- Main catalogs
  - **GSC2** The Guide Star Catalogue, Version 2.4.2 (2020)
  - **Simbad** CDS / Simbad
  - **Gaia DR3** Gaia DR3 catalogues and cross-matched catalogues though ESA archive center.
- Additionnal catalogs (use toggle button in the menu to get result tables)
  - **GDR2AP** The Astrophysical Parameters from Gaia DR2, 2MASS & AllWISE catalog through the GAVO DC.
  - **Gaia DR2** Gaia DR2 catalogues with its external catalogues cross-match though ESA archive center.

Each query is performed within 30'' of the Science Target. A magnitude filter is applied on every Fringe Tracker Targets according to the best limits offered in P110 for **UT (MACAO) OR AT (NAOMI)** respectively **(K < 11 AND V < 15) OR (K < 10 AND R<12.5)**. When missing, the V and R magnitudes are computed from the Gaia G, Grb and Grp magnitudes. The user must **refine its target selection** to take into account VLTI Adaptive Optics specifications before we offer a configuration selector in a future release.

- Enter comma separated names (SearchFTT will try to resolve it using Simbad) or coordinates (RA +/-DEC in degrees J2000), in the TextBox below.
- Move your pointer to the column titles of the result tables to get the column descriptions.
- To send a target to Aspro2 (already open), click on the icon in the GetStar column, then press "Send Votable".
- Please fill a report for any question or remark.

Science identifiers (comma separated)

Fig. 12



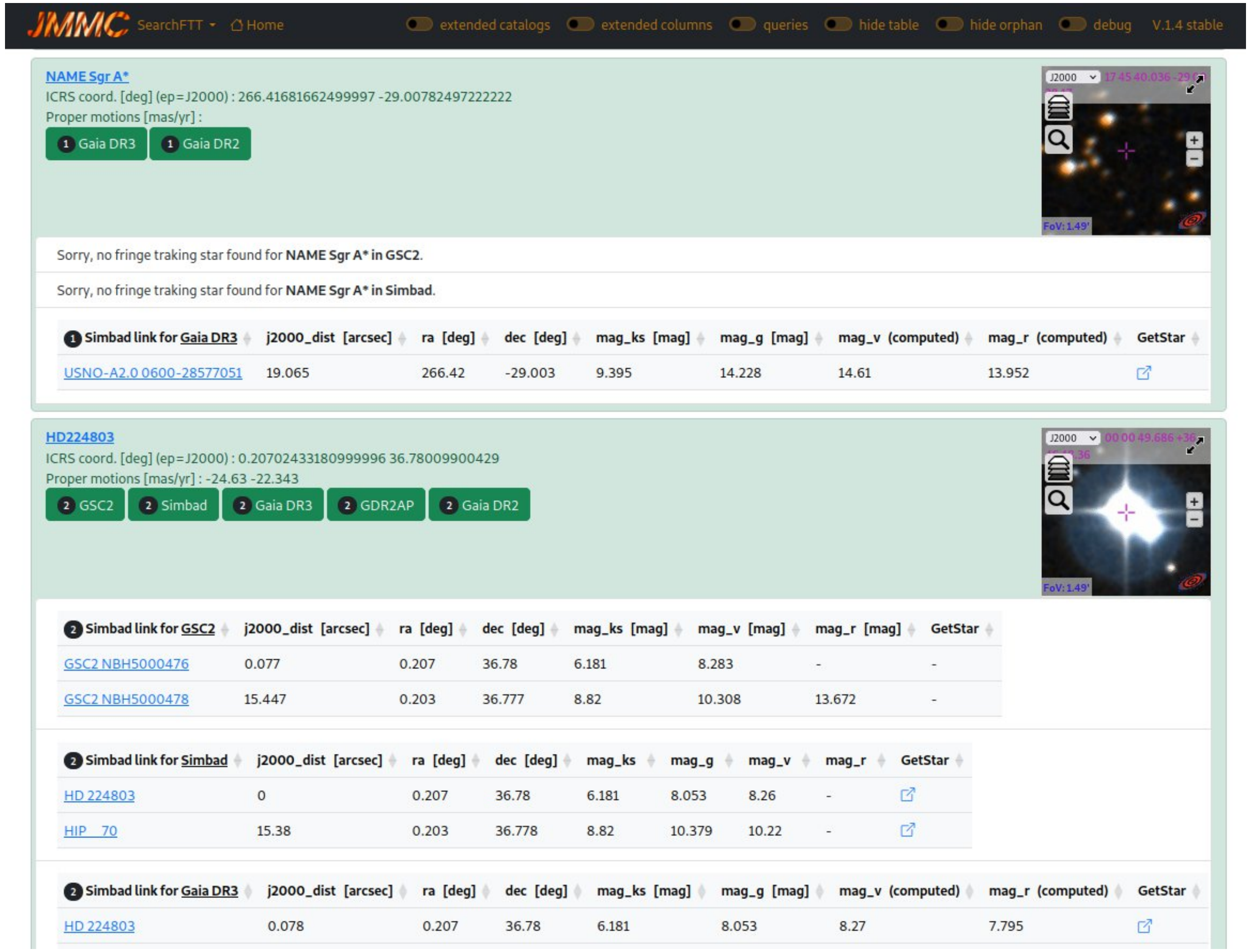
Download original image

Sky coverage for laser guide star adaptive optics supported off-axis fringe tracking with a fringe tracking star as faint as $m_K = 13$, and a maximum allowed separation of 30 arcsec.

Une interface simple
...des recherches multi-datacenters/catalogues

- Contraintes instrumentales
  - pré-définies & paramétrables manuellement
- Génération dynamique de requêtes ADQL
  - 1 par target et par datacenter
- Regroupement des résultats

- Export vers Aspro2 en passant par GetStar


JMMC
SearchFTT
Home
extended catalogs
extended columns
queries
hide table
hide orphan
debug
V.1.4 stable
J2000
17 45 40.036 -29
FoV: 1.49'
J2000
00 00 49.686 +36
FoV: 1.49'

NAME Sgr A*
ICRS coord. [deg] (ep=J2000) : 266.41681662499997 -29.00782497222222
Proper motions [mas/yr] :

1 Gaia DR3 | 1 Gaia DR2

Sorry, no fringe traking star found for **NAME Sgr A* in GSC2**.

Sorry, no fringe traking star found for **NAME Sgr A* in Simbad**.

1 Simbad link for Gaia DR3	j2000_dist [arcsec]	ra [deg]	dec [deg]	mag_ks [mag]	mag_g [mag]	mag_v (computed)	mag_r (computed)	GetStar
USNO-A2.0 0600-28577051	19.065	266.42	-29.003	9.395	14.228	14.61	13.952	↗

HD224803
ICRS coord. [deg] (ep=J2000) : 0.20702433180999996 36.78009900429
Proper motions [mas/yr] : -24.63 -22.343

2 GSC2 | 2 Simbad | 2 Gaia DR3 | 2 GDR2AP | 2 Gaia DR2

2 Simbad link for GSC2	j2000_dist [arcsec]	ra [deg]	dec [deg]	mag_ks [mag]	mag_v [mag]	mag_r [mag]	GetStar
GSC2 NBH5000476	0.077	0.207	36.78	6.181	8.283	-	-
GSC2 NBH5000478	15.447	0.203	36.777	8.82	10.308	13.672	-

2 Simbad link for Simbad	j2000_dist [arcsec]	ra [deg]	dec [deg]	mag_ks	mag_g	mag_v	mag_r	GetStar
HD 224803	0	0.207	36.78	6.181	8.053	8.26	-	↗
HIP 70	15.38	0.203	36.778	8.82	10.379	10.22	-	↗

2 Simbad link for Gaia DR3	j2000_dist [arcsec]	ra [deg]	dec [deg]	mag_ks [mag]	mag_g [mag]	mag_v (computed)	mag_r (computed)	GetStar
HD 224803	0.078	0.207	36.78	6.181	8.053	8.27	7.795	↗

Démo !

https://searchftt.jmmc.fr

https://searchftt-beta.jmmc.fr

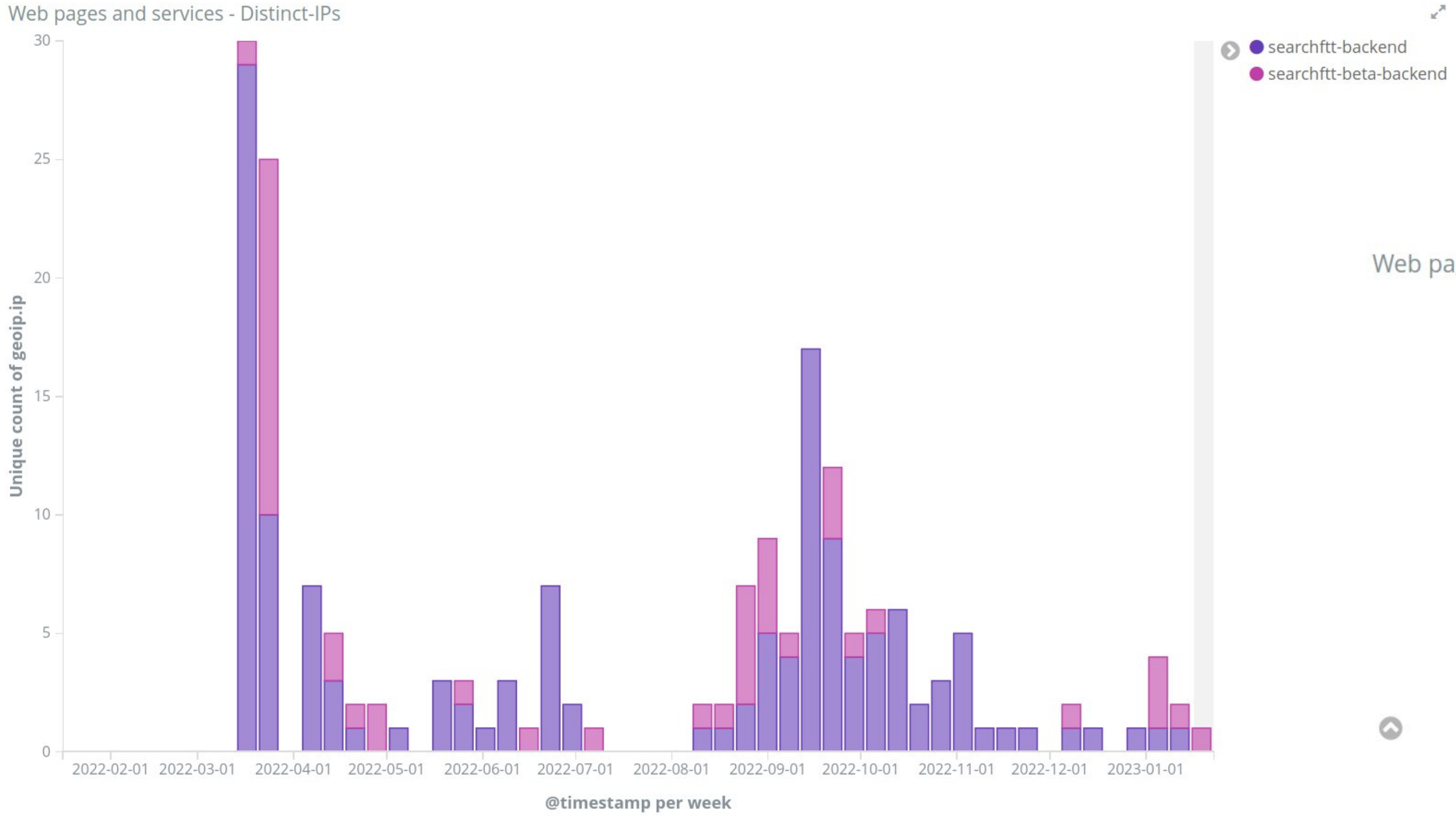
Pub : retrouvez toutes les versions des softs sur

https://releases.jmmc.fr

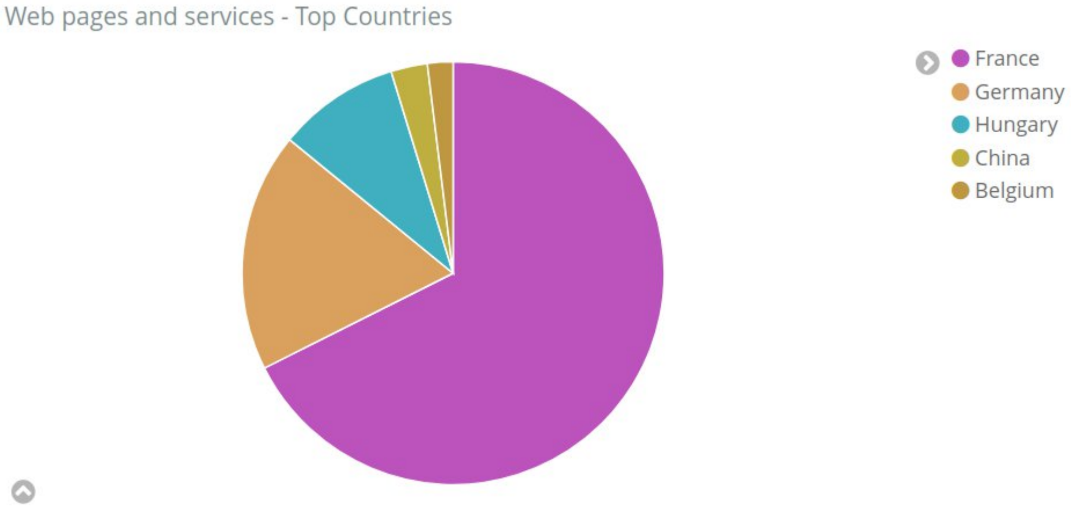
Disponible sur GitHub

- Depuis sa création en mars 2022 (3 jours de dev pour la V.1)
  - https://github.com/JMMC-OpenDev/searchftt
- Avec le reste de ses dépendances (jmmc-resources)
  - Depuis nov 2022 (12 dépôts existdb)
- Intégration continue (github actions)
  - Automatisation des releases depuis jan. 2023
  - Gain de temps pour les déploiements (infra docker/kubernetes)

Statistiques utilisateurs



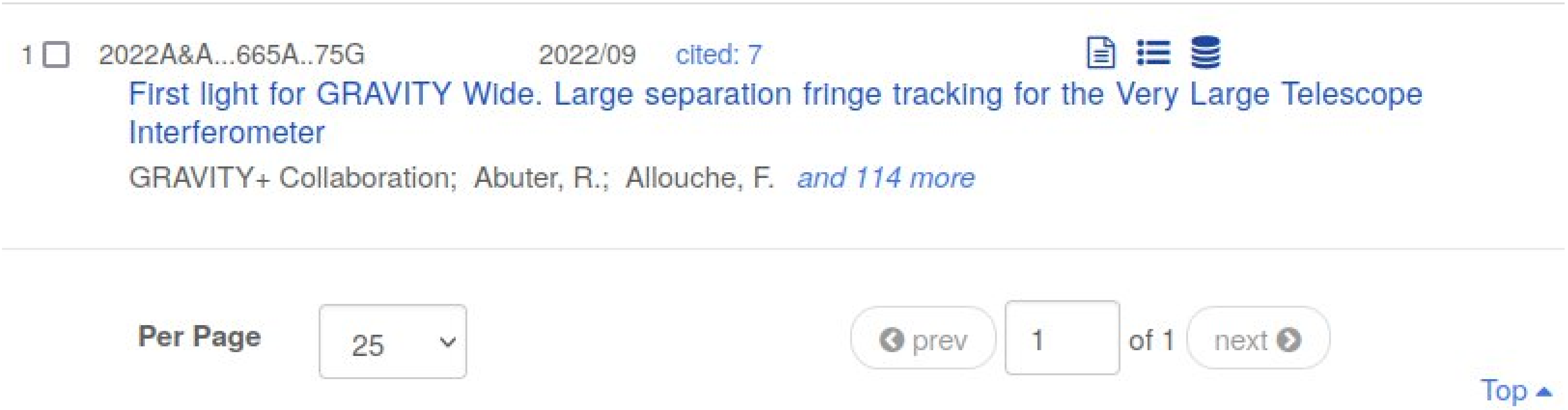
Web pages and services - Distinct-IPs



Web pages and services - Top Countries

Quelle(s) publication(s) cite(nt) SearchFTT ?

- https://publications.olbin.org/toads?tag=SearchFTT



1 ☐ 2022A&A...665A..75G 2022/09 cited: 7

First light for GRAVITY Wide. Large separation fringe tracking for the Very Large Telescope Interferometer

GRAVITY+ Collaboration; Abuter, R.; Allouche, F. *and 114 more*

Possibles évolutions

- Réduction ou unification des catalogues d’entrée
- Interrogation par batch d’étoiles
  - Possible sur plusieurs centaines de cibles
- Extension des critères de recherche
  - AT/UT, SEEING, périodes CFP...
- Export des résultats votables, csv...