

OLBIN: a bibliographic database in stellar optical interferometry

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Alain Chelli, Gaspard Duchêne and Guillaume Mella

Jean-Marie Mariotti Center (JMMC) for optical interferometry data

Outline

<https://apps.jmmc.fr/bibdb/>

- **Context**

the stellar optical interferometry (OI)

- **Description**

- what for
- how it is fed
- how it is used
- some numbers

- **Evolution**

You can search papers by keywords (years, titles, author names , part of bibcodes), or/and by using tags from the list.

Tag List

The OLBIN interactive interferometry publications database includes all refereed papers related to optical interferometry referenced in ADS and aims at being as complete as possible. It is made up of refereed interferometric papers, that are distributed into various categories (Astrophysical results, Catalogs, Instrumentation, Review papers, Theory and predictions, etc), various interferometer facilities and instruments, various types of object observed, etc. This labelling enriches the basic information from ADS (title, list of authors, year of publication). Just click on the "Tag List" button for the complete list of tags.

It is not easy to define an interferometric paper, and in some cases, the decision to include or not a paper in OLBIN may be somewhat subjective. But we can say that it is a referred paper:

- whose main topic is optical interferometry (Long Baseline or Sparse Aperture Masking),
- with new astrophysical interferometric data and results, or
- that uses already published interferometric observables (visibilities, closure phases and so on) together with other types of data, within a model to produce new astrophysical results.

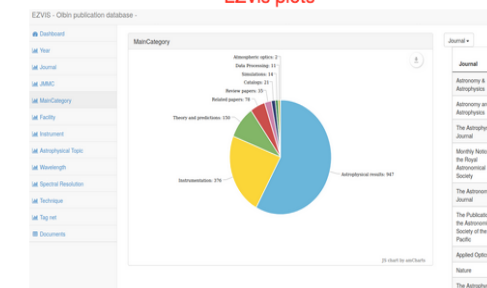
OLBIN refereed papers get its own ADS library so you can subscribe with your ADS account and be notified on future updates. If you notice that a paper is missing please **send the ADS bibcode to the webmaster** and any other useful information. You can find the **current list of reviewed papers** to complete the OLBIN database (is empty after the review).

All the database contents can be downloaded as one **spreadsheet file**, in CSV format for your own use (e.g. for plotting graphics).

Get publications for a given target on ADS

HD123, HD166

EZVis plots



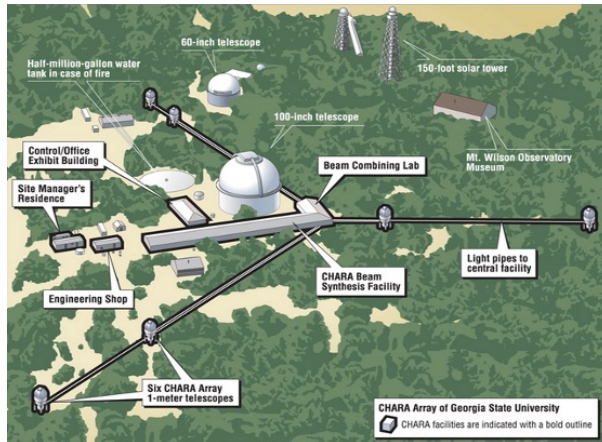
OLBIN Context

The stellar optical interferometry (OI)

- A young observational technique
 - ~ 100 years
 - time gaps due to technical challenges

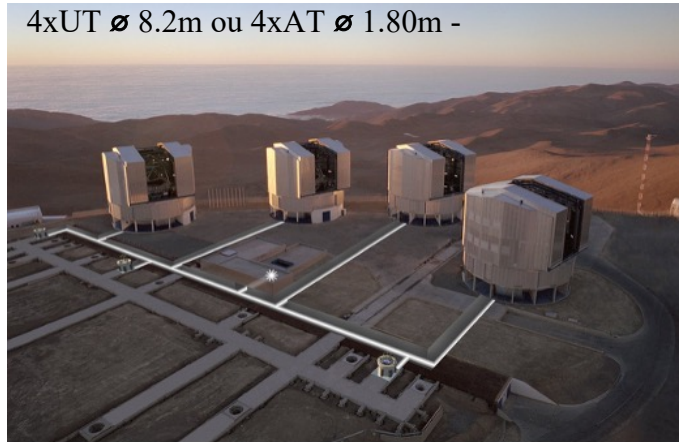
Today

CHARA, MtWilson, GSU, USA
6xT $\varnothing$ 1m

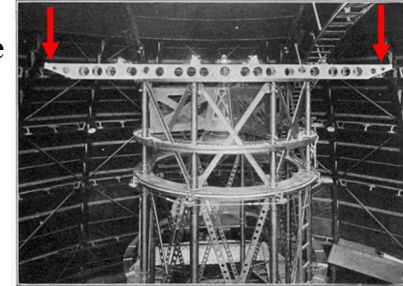


European VLT-Interferometer, ESO, Paranal, Chili

4xUT $\varnothing$ 8.2m ou 4xAT $\varnothing$ 1.80m -

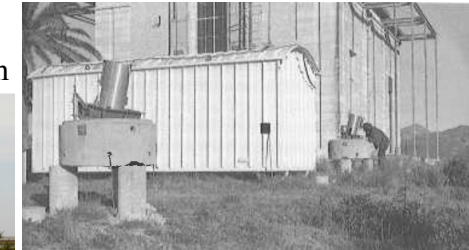


1921 Michelson-Pease
T $\varnothing$ 100" MtWilson



50 years

1974 Labeyrie
I2T Nice Tel. $\varnothing$ 26cm



1985 Labeyrie
GI2T-Calern Tel. $\varnothing$ 150cm



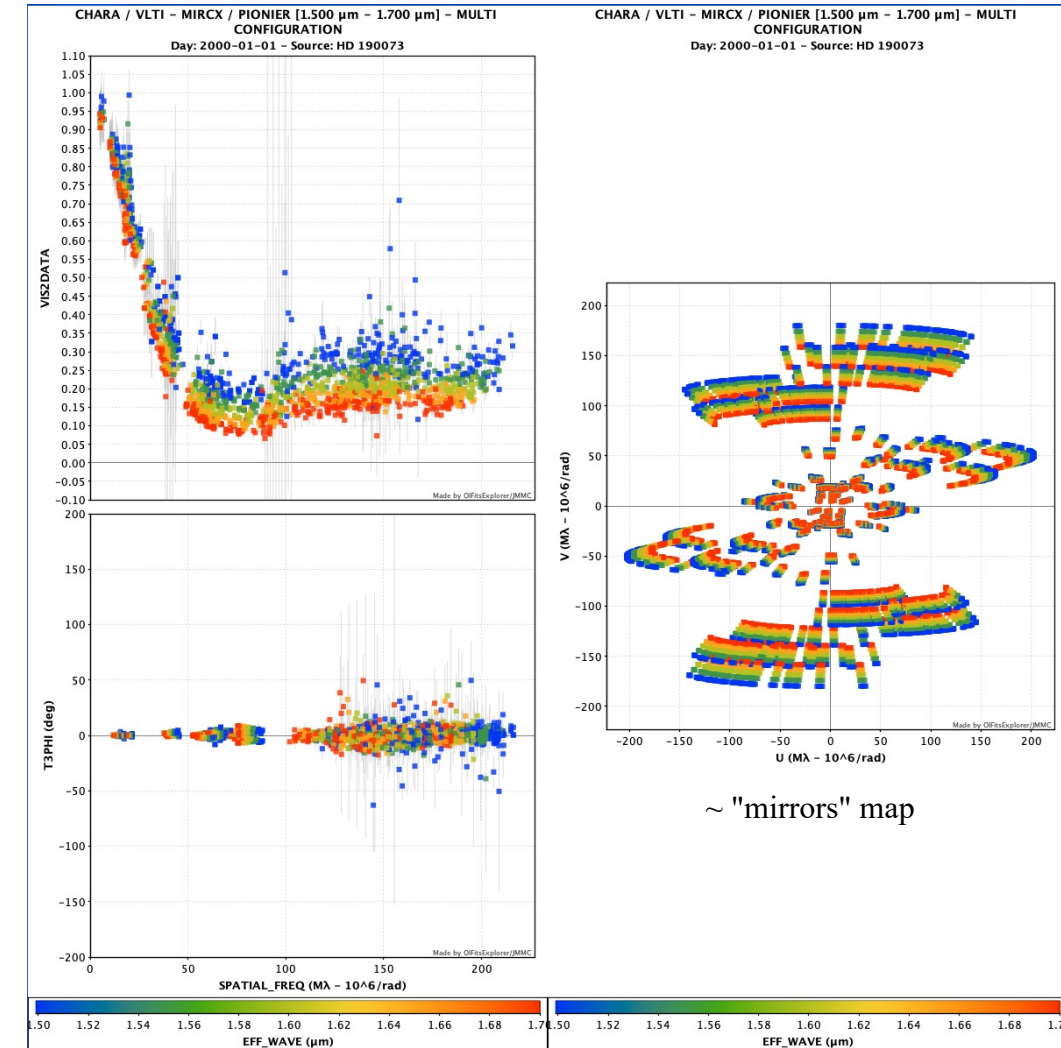
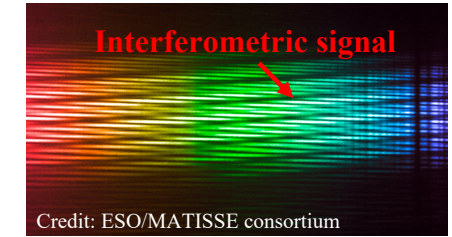
2001

- VLTI: first 2 UT interferometric signal
- CHARA: first 2T 330m interferometric signal

OLBIN Context

The stellar optical interferometry (OI)

- A **young** observational technique
- **Difficult** to master
 - no direct image
 - but a complex interferometric signal
 - highly sensitive to vibrations and turbulence conditions
 - requiring good mathematical knowledge to be understood
 - algorithmic R&D continuously ongoing



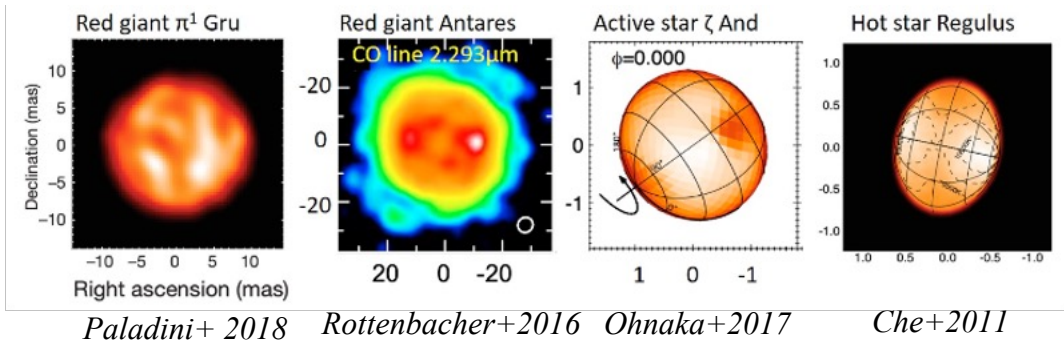
OLBIN Context

The stellar optical interferometry (OI)

- A **young** observational technique
- **Difficult** to master
- But **highly performing**

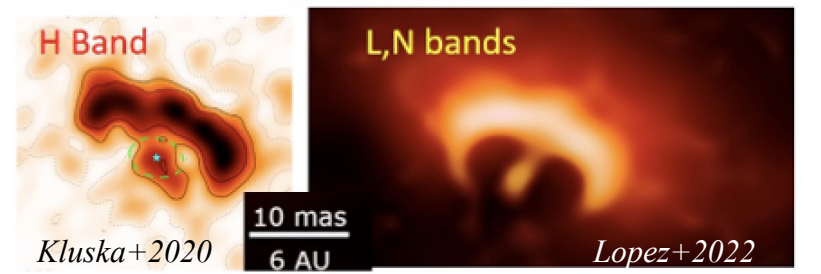
many astrophysical breakthroughs
the last decade

Stellar images

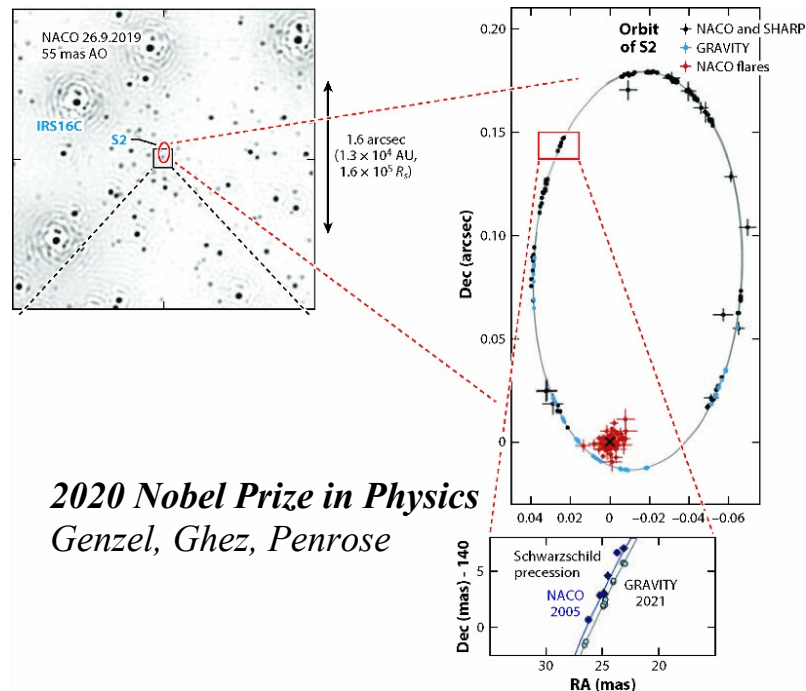


Disk images

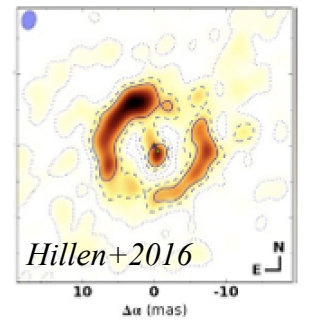
Multi-wavelength imaging of HD45677 disk



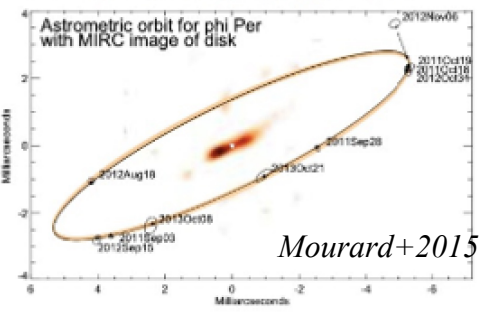
Center of our galaxy



Post-AGB dust disk



Be star binary w/ gas disk



from Eisenhauer, Monnier & Pfuhl review 2023

OLBIN Context

A well organized OI community to make OI easier

- Allowing strong collaboration
 - a common website for european & american groups
 - regular OI meetings (VLTI days, annual CHARA meetings)
- Sharing expertise
 - common data format (OIFits) (*IAU commission*)
 - OI database
 - specific OI softwares
- Training users
 - VLTI schools (*European Interferometry Initiative*)
 - Michelson stellar interferometry schools

Transactions IAU, Volume XXVIIB
Proc. XXVII IAU General Assembly, August 2009
Ian F. Corbett, ed.

COMMISSION 54

PRESIDENT
VICE-PRESIDENT
PAST PRESIDENT
ORGANIZING COMMITTEE

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doi:10.1017/S1743921310005235

OPTICAL & INFRARED
INTERFEROMETRY
(OPTICAL & INFRARED
INTERFEROMETRY)

Stephen Ridgway
Gerard van Belle
Guy Perrin
Gilles Duvert, Reinhard Genzel,
Christopher Haniff, Christian Hummel,
Peter Lawson, Peter Tuthill,
Abdolkarim Vakili

PROCEEDINGS BUSINESS SESSION

2024 VLTI-school, FR- Porquerolles

2024 CHARA
Science meeting,
USA- Tucson

OLBIN Context

https://www.jmmc.fr

A need of support for astronomers

- JMMC (*Jean-Marie Mariotti Center*)
 - created in 2000, human resources from four French observatories
 - access via its website
- development of user-friendly softwares
- "Face to Face" help

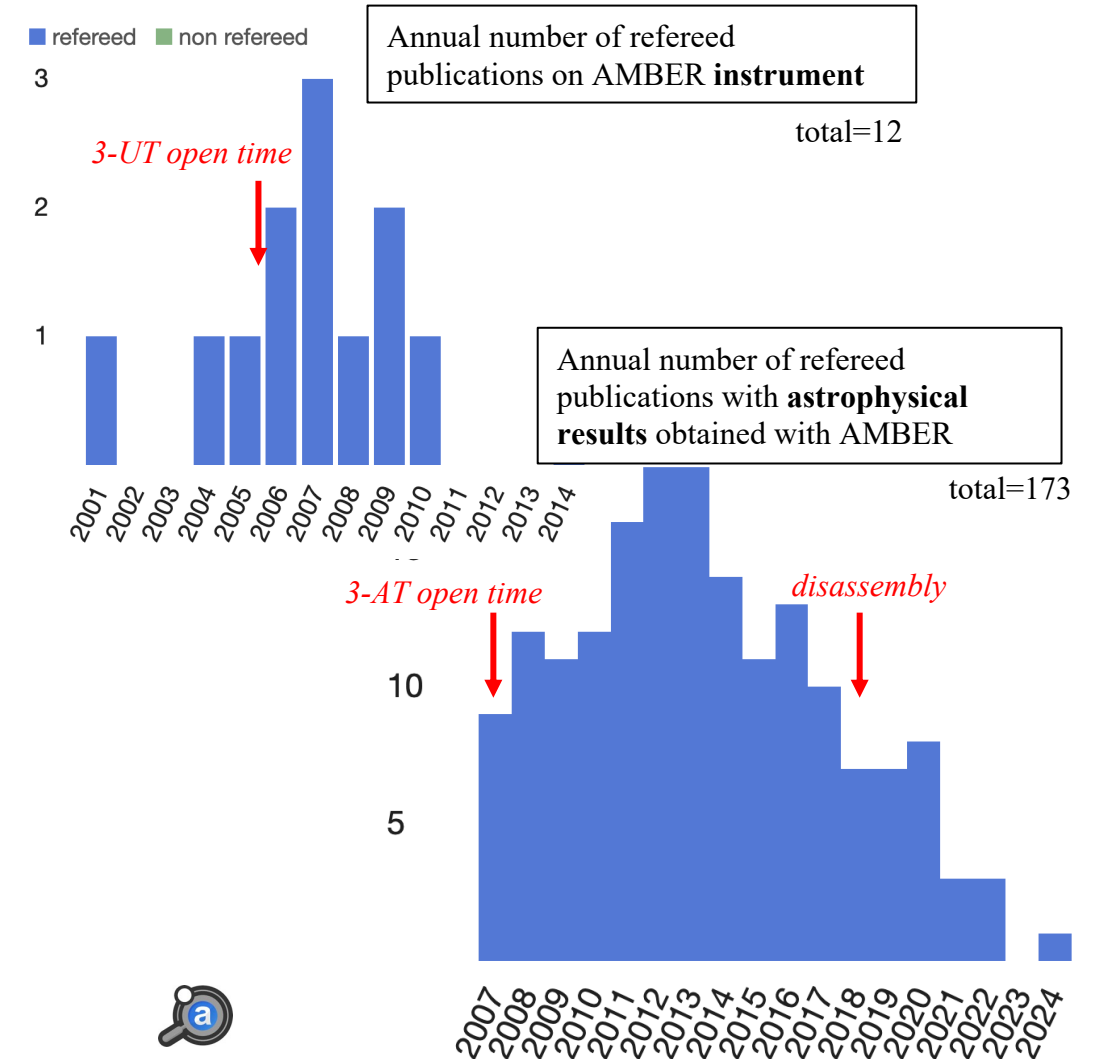


OLBIN Context

A need to evaluate and promote OI

- Example: impact of AMBER/VLTI instrument
 - Milestones
 - first light mid-2004
 - open access end-2005
 - decommissioning end-2018
 - How its contribution evolved?
 - necessity to see its production
 - reliable and referenceable means: A-rank publications

→ need for a bibliographic database

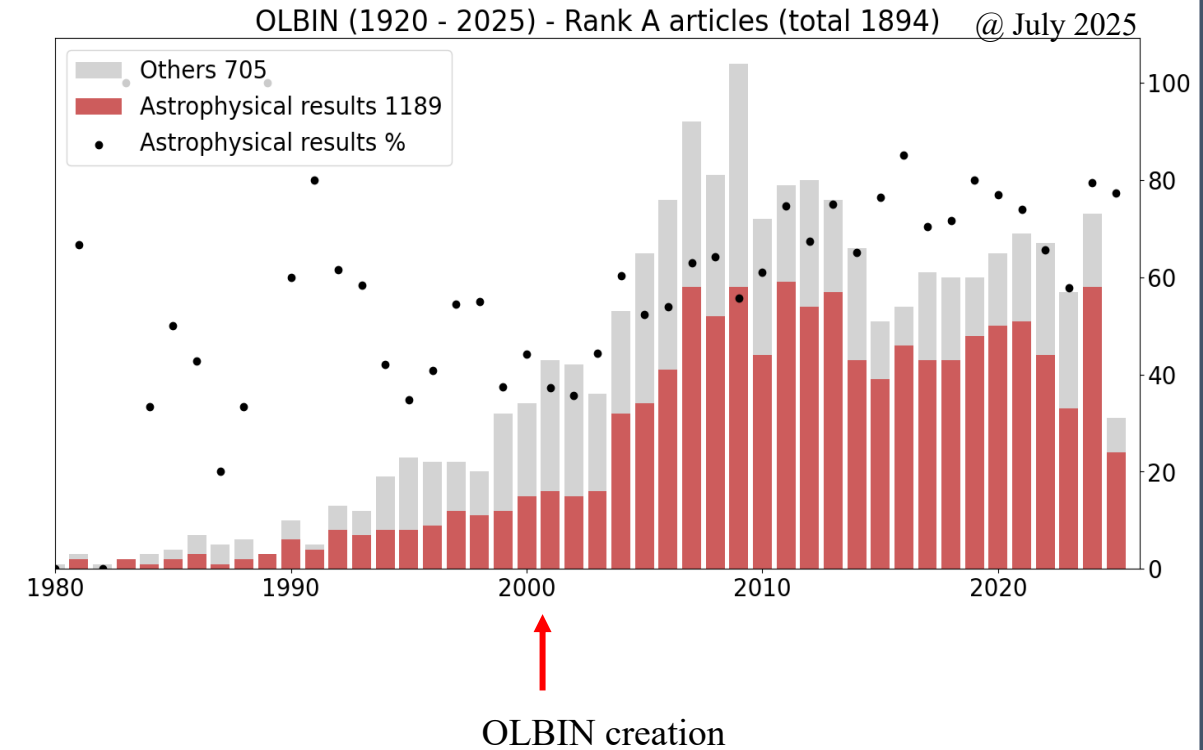


OLBIN description

What for

- **Tracking the publication record in the OI field**

- Start at ~2000 "by hand"
(*Lawson et al, JPL, OLBIN website*)
- But rapidly, necessity to build a database
- Supported by JMMC in 2009



OLBIN description

Tags list

How it is fed

• Definition of Tags

- Classified into groups
- One tag = a facility, an instrument, an astrophysical topic, a technique, ...
- Tags list evolving with time (if new instrument, new astrophysical topic, ...)

HIDDEN : This category groups the tags which should not be presented directly through the web interfaces

AMHRA Amdlib Aspro Getstar JMDC JMMC JSDC LITpro MDFC MidiDRS
OIFITS OIFits Explorer Olmaging PNDRS SUV SearchCal SearchFTT Wisard
bibdb oodb **JMMC tools**

MainCategory : Groups the tags which make articles be presented by categories on olbin pages

Astrophysical results Atmospheric optics Catalogs Data Processing Instrumentation
Review papers Simulations Space Interferometry Theory and predictions

Facility : Groups the tags listing facilities

AAT C2PU CHARA COAST GI2T Gemini HESS HYPERTELESCOPES I2T
IACT IOTA IRMA ISI JWST Keck Keck Interferometer LBT LBTI MMT
Magellan Mark III NPOI Narrabri Stellar Intensity Interferometer PTI Palomar SIM
SUBARU SUSI Tcherenkov telescopes VLT VLTI WHT

Instrument : Groups the tags listing instruments

ALOHA AMBER ASGARD CLASSIC CLIMB FIRST FLUOR GLINT GPI
GRAVITY IONIC KIN LMIRCam MAGIC-SII MAPPIT MATISSE MIDI MIRC
MIRC-X MYSTIC NACO/VLT NIRC2 NIRISS/AMI NOMIC PAVO PIONIER PRIMA
SPHERE SPICA VEGA VEGA Friend VINCI VISION

Astrophysical topic : Was previously called Object type

AGB and Post-AGB stars Active Galactic Nuclei Ap stars Asteroids B[e] stars Be stars
Binary and multiple stars Black holes Brown Dwarves Calibrators Carbon stars
Cepheid variables Circumstellar matter Cool stars Debris disks Disks
Dust shells of late type stars Dwarf stars Early type stars Exoplanet host star Exoplanets
Exozodiacal Dust Fast rotating stars Galactic Center Giant stars Herbig Ae/Be stars
Late Type Stars Low-mass stars Luminous Blue Variables Massive stars Microlenses
Mira variables Novae Planet host star Protoplanetary disks Quasars R CrB stars
Red Supergiant Relativistic processes Solar system Stellar diameters Stellar parameters
Subgiant stars Supergiants T Tauri Stars, FU Orionis stars Variable stars Wolf-Rayet stars
X ray binary Young massive stars Young stars ZAMS accretion disk

Wavelength : Observing Wavelength

Far Infrared Mid infrared Near Infrared Visible domain

Spectral Resolution :

Broad band High resolution Low spectral resolution Medium resolution Narrow band

Technique :

Astrometry Beam combiners Closure phases Differential astrometry Differential imaging
Differential phase Differential visibility Fiber linked Interferometry Fibers Fringe tracking
Heterodyne interferometry Images Integrated optics Intensity interferometry Nulling
Phase reference Polarised light Pupil remapping Sparse Aperture Masking (SAM)
Spectro-interferometry Squared visibilities

OLBIN description

How it is fed

- Definition of Tags
- API requests sent to ADS (SciX ready)
 - Search for specific words in fulltext, for some citations,...
 - subtracting the current OLBIN library and other internal libraries

→ new ADS list: "olbin-candidates"

How do API requests look like

```
year:[2000 TO NOW] -collection:(earthscience) full:("interferometer" or "interferometry" or
"aperture masking")fulltext_mtime:["1000-11-23T14:02:07.762Z" TO *] property:refereed -
docs(library/KusGHVjTSxu1Loo1obbF9A) - ( docs(library/lRAwFv_1Q-6J9ZAGrW_hHA) OR
bibstem:(ASPC OR PhDT OR MNRAS.tmp OR NatAs.tmp) ) -
docs(library/SQOGeFmDTjOf6jZ5bepqPQ) (=full:("GI2T")) or (=full:("NPOI")) or
(=full:("HYPERTELESCOPES" OR "Hypertelescope")) or (=full:("Imaging Atmospheric
Cherenkov Telescopes")) or (=full:("SUSI")) or (=full:("VLTI")) or (=full:("Mark III")) or
(=full:("CHARA")) or (=full:("LBTI")) or (=full:("Narrabri Stellar Intensity Interferometer" OR
"Narrabri Intensity")) or (=full:("Keck Interferometer")) or (=full:("PTI")) or
(=full:("Tcherenkov telescopes")) or (( citations(identifier:(2018ExA....46..457S OR
2022SPIE12183E..1HS)) )) or (( citations(identifier:(2014SPIE.9146E..00H OR
2016SPIE.9907E..3VH OR 2017lisa.confP..10M)) )) or ((
citations(identifier:(2012ASPC..461..379L OR 2012SPIE.8445E..3FM)) )) or ((
citations(identifier:(2007A&A...464...29T OR 2009A&A...502..705C OR 2010SPIE.7734E..4CM
OR 2010ascl.soft10003M)) )) or (( citations(identifier:(2004SPIE.5496..582M OR
2004SPIE.5491..611D OR 2011ASPC..442..489D OR 2013ascl.soft10005B OR
2016SPIE.9907E..11B)) )) or (( citations(identifier:(2010SPIE.7734E..4EL OR
2010yCat.2300....0L OR 2017yCat.2346....0B OR 2016A&A...589A.112C OR
2014SPIE.9146E..2ZC OR 2014ASPC..485..223B OR 2012yCat..74140108B OR
2019MNRAS.490.3158C OR 2019yCat.2361....0C)) )) or ((
citations(identifier:(2016yCat.2345....0D)) )) or (( citations(identifier:(2010SPIE.7734E..3FM)) ))
or (( citations(identifier:(2008SPIE.7013E..1JT OR 2007NewAR...51..697T)) )) or ((
citations(identifier:(2011A&A...535A..67L)) )) or (( citations(identifier:(2006A&A...456..789B OR
2011A&A...535A..53B OR 2011MNRAS.414..108B)) )) or ((
citations(identifier:(2017A&A...597A...8D)) )) or ( ( full:("jmme" or "mariotti") ) and ( (
full:("oimaging") or ( full:("oidb") ) or ( full:("toolslabeltbd") ) or ( full:("searchft") ) or (
full:("amhra") ) or ( full:("amdlib") ) or ( full:("aspro" OR "aspro2") ) or ( full:("jsdc") ) or (
full:("jmde") ) or ( full:("getstar") ) or ( full:("oifits explorer") ) or ( full:("wisard") ) or (
full:("bibdb") ) or ( full:("suv") ) or ( full:("litpro") ) or ( full:("pndrs") ) or ( full:("mididrs") ) or (
full:("searchcal") ) or ( full:("oifits") ) ) ) )
```

OLBIN description

How it is fed

- Definition of **Tags**
- API requests sent to ADS (SciX ready)
→ new ADS list "olbin-candidates" -
- **Requests sent to this ADS list**
 - One request by Tag for a subset of Tags
→ list of "OLBIN-candidates"
 - For each candidate are given:
 - *Facilities & JMMC tools* Tags
 - the number of OLBIN papers in the Reference Section

<https://bibdbmgr.jmmc.fr/new-candidates.html>



23/23 publications to filter and review ([View this list on ADS in another tab](#))

1. **Which is the most eccentric binary known? Insights from the 2023/4 pericenter passages of Zeta Boötis and Eta Ophiuchi**
Waisberg, Idel, Klein, Ygal, Katz, Boaz
2025 - *The Open Journal of Astrophysics*, vol. 8, id. 63
Add article to OLBIN JSDC VLTi SearchCal PTI Sparse Aperture Masking (SAM) (2 reference(s) part of OLBIN)
2. **HD 143006: interferometric confirmation of misaligned protoplanetary disc with CHARA/MIRCX and VLTi/PIONIER**
Codron, I., Kraus, S., Monnier, J. D. et al.
2025 - *Monthly Notices of the Royal Astronomical Society*, Volume 541, Issue 2, pp. 1600-1612, 13 pp.
Add article to OLBIN oidb JSDC VLTi CHARA PNDRS SearchCal OIFITS (19 reference(s) part of OLBIN)
3. **On-sky demonstration of an ultra-fast intensity interferometry instrument utilizing hybrid single photon counting detectors**
Leopold, Verena G., Karl, Sebastian, Rivet, Jean-Pierre et al.
2025 - *Journal of Astronomical Telescopes, Instruments, and Systems*, Volume 11, id. 035005 (2025).
Add article to OLBIN IACT (13 reference(s) part of OLBIN)
4. **Solar observation with MeerKAT: demonstration of technical readiness and initial science highlights**
Kansabanik, Devoiyoti, Gouws, Marcel, Patra, Deepan et al.
2025 - *Frontiers in Astronomy and Space Sciences*, Volume 12, id.1666743
Add article to OLBIN Mark III (No reference to OLBIN)

How it is fed

- Definition of **Tags**
- API requests sent to ADS (SciX ready)
 - new ADS list "olbin-candidates" -
- Requests sent to this ADS list
 - list of "OLBIN-candidates" with Tags
- **Check each candidate and save it in a library**
 - **If not OLBIN**, from *ADS page*, save in internal JMMC libraries:
 - one for papers with reference of JMMC tools,
 - one for papers describing JMMC tools but non refereed,
 - one for papers meeting no OLBIN criteria.

**SPHERE/ZIMPOL insights into discs around evolved stars
asymmetries and dust properties**

Show affiliations

Andrych, Kateryna  ; Kamath, Devika  ; Van Winckel, Hans  ; Corporaal, Akke 
De Prins, Toon  ; Price, Daniel J.  ; Ertel, Steve  ; Kluska, Jacques 

Second-generation circumbinary discs around evolved binary stars, such as post-Asym Branch (post-AGB) binaries, provide insights into poorly understood mechanisms of dust and disc evolution across diverse stellar environments. We present a multi-wavelength survey of five evolved binary systems – AR Pup, HR 4049, HR 4226, U Mon, and V709 Cas – using the Very Large Telescope SPHERE/ZIMPOL instrument. Post-AGB discs show significant polarisation at optical and near-IR wavelengths, often exceeding 1% of the system's total flux. We also measured a maximum fractional polarisation of the scattered light for AR Pup of $\sim 0.5\%$ and ~ 0.55 in the I-band. To investigate wavelength-dependent polarisation, we compare our SPHERE/ZIMPOL dataset with results from previous SPHERE/IRDIS studies. This analysis shows that post-AGB discs exhibit a grey to blue polarimetric colour in the optical and near-IR. Along with the fractional polarisation of the scattered light and polarised intensity distribution, these findings are consistent with a surface dust composition dominated by porous aggregates, reinforcing the importance of observational evidence for such grains in post-AGB circumbinary discs. We also find evidence for diverse disc geometries within the post-AGB sample, including arcs, asymmetries and clumps. Variations in disc size across optical and near-IR wavelengths for some systems (U Mon and V709 Car) are consistent with our findings. Combining our findings with existing multi-technique studies, we question the classification of some systems in our sample, HR 4226 and V709 Car, which were originally identified as post-AGB stars on their near-IR excess. On comparing post-AGB discs to circumstellar discs around main-sequence stars and YSOs, we found that post-AGB systems exhibit a higher degree of polarisation and are comparable to the brightest protoplanetary discs around YSOs. Our results reinforce the importance of polarimetric observations in probing dust properties and complex circumbinary structures. We also highlight the importance of combining multi-wavelength and multi-technique observations with advanced radiative-transfer modelling to differentiate between the various evolutionary pathways of circumbinary discs.

Publication: Publications of the Astronomical Society of Australia, Volume 42, id.e125, 31 pp.

Pub Date: August 2025

arXiv:2503.23646

Bibcode: 2025PASA...42..125A ?

Keywords: Stars: evolution; binaries; AGB and post-AGB; YSO- circumstellar discs; Solar and Stellar Astrophysics; Earth and Planetary Atmospheres; Atmospheres of Other Planets

 FULL TEXT SOURCES

WSPC

Preprint

 Add paper to library

add to an existing library:

✓ Select a library...

jmmc-non-interfero (jmmc-tech-group)

jmmc-papers (jmmc-tech-group)

olbin-blocklist (jmmc-tech-group)

New Library Name

Add

OLBIN description

How it is fed

- Definition of Tags
- API requests sent to ADS (SciX ready)
 - new ADS list "olbin-candidates" -
- Requests sent to this ADS list
 - list of "OLBIN-candidates" with Tags
- **Check each candidate and save it in a library**
 - If not OLBIN, from *ADS page*, in internal JMMC libraries
 - **If OLBIN**, from *new-candidates.html page*:
 - "Add to OLBIN"
 - fill out the Tags form
 - Tags linked to the publication now in the database

[Homepage](#)
[Contacts & Credits](#)

Add a new publication

Ads url used to get informations is : <http://bibdbmgr.jmmc.fr/exist/restxq/adsabs?bibcodes=2025OJAp....8E..63W>

Please check following informations and confirm the registration :

pubdate:May 2025

Bibcode : '2025OJAp....8E..63W'

Title : Which is the most eccentric binary known? Insights from the 2023/4 pericenter passages of Zeta Boöt

Journal : The Open Journal of Astrophysics, vol. 8, id. 63

Pubdate : 2025-05-01 (YYYY-MM-DD)

Author(s):

Waisberg, Idel

Klein, Ygal

Katz, Boaz

Associated tags:

- Astrometry
- Astrophysical results
- Binary and multiple stars
- Closure phases
- GRAVITY
- High resolution
- JMMC
- JSDC
- Low spectral resolution
- Near Infrared
- SearchCal
- Squared visibilities
- VLT

Confirm

AMHRA 0Amdlib 0Aspro 5CHARA 6GI2T 0Getstar 0HYPERTELESCOPES 0IACT 1JMDC 3JSDC 8

Keck 2LBTI 3LITpro 0Mark III 2MidIDRS 0NPOI 1Narrabri Stellar Intensity Interferometer 0OIFITS 4

OIFits Explorer 1OImaging 0PNDRS 3PTI 1SUSI 0SUV 0SearchCal 6SearchFTT 0

Tcherenkov telescopes 0VLTI 17Wisard 0bibdb 0oidb 4toolslabelfdb 0

1. Which is the most ec
Waisberg, Idel, Klein, Y
2025 - The Open Jour
Add article to OLBIN
2. HD 143006: interferor
Codron, I., Kraus, S., M
2025 - Monthly Notice
Add article to OLBIN
3. On-sky demonstration
Leopold, Verena G., Ka
2025 - Journal of Astro
Add article to OLBIN
4. Solar observation wit
Kansabanik, Devojyoti
2025 - Frontiers in Ast
Add article to OLBIN

Please specify bibcode

2025OJAp....8E..63W

Please select relevant tags

Tags form to complete

HIDDEN	MainCategory	Facility	Instrument	Astrophysical topic	Wavelength	Spectral Resolution	Technique
☐ Amdlib ☐ AMHRA ☐ Aspro ☐ bibdb ☐ Getstar ☐ JMDC ☒ JMMC ☒ JSDC ☐ LITpro ☐ MDFC ☐ MidIDRS ☐ oidb ☐ OIFITS ☐ OIFits	☒ Astrophysical results ☐ Atmospheric optics ☐ Catalogs ☐ Data ☐ Processing ☐ ☐ Instrumentation ☐ Review ☐ papers ☐ Simulations ☐ Space ☐ Interferometry	☐ AAT ☐ C2PU ☐ CHARA ☐ COAST ☐ Gemini ☐ GI2T ☐ HESS ☐ ☐ HYPERTELESCOPES ☐ I2T ☐ IACT ☐ IOTA ☐ IRMA ☐ ISI	☐ ALOHA ☐ AMBER ☐ ASGARD ☐ CLASSIC ☐ CLIMB ☐ FIRST ☐ FLUOR ☐ GLINT ☐ GPI ☒ GRAVITY ☐ IONIC	☐ accretion disk ☐ Active Galactic Nuclei ☐ AGB and Post-AGB stars ☐ Ap stars ☐ Asteroids ☐ Be stars ☒ Binary and multiple stars ☐ Black holes ☐ Brown Dwarves	☐ Far Infrared ☐ Mid infrared ☒ Near Infrared ☐ Visible domain	☐ Broad band ☒ High resolution ☒ Low spectral resolution ☐ Medium resolution ☐ Narrow band	☒ Astrometry ☐ Beam combiners ☒ Closure phases ☐ Differential astrometry ☐ Differential imaging ☐ Differential phase ☐ Differential visibility ☐ Fiber linked

OLBIN description

How it is used

• To make personal bibliographic research

- Easy action from the "user portal"
 - Select Tags in the List, and the logical operator or give keywords
 - Send the so created request to ADS

→ personal ADS list

- may be helpful for a paper reviewing a given topic
for example: *2019JAI.....850012A*

OLBIN user portal <https://apps.jmmc.fr/bibdb/>

Homepage Contacts & Credits

Database of Publications in Stellar Optical Interferometry

You can search papers by keywords (years, titles, author names , part of bibcodes), or/and by using tags from the list. [Tag List](#)

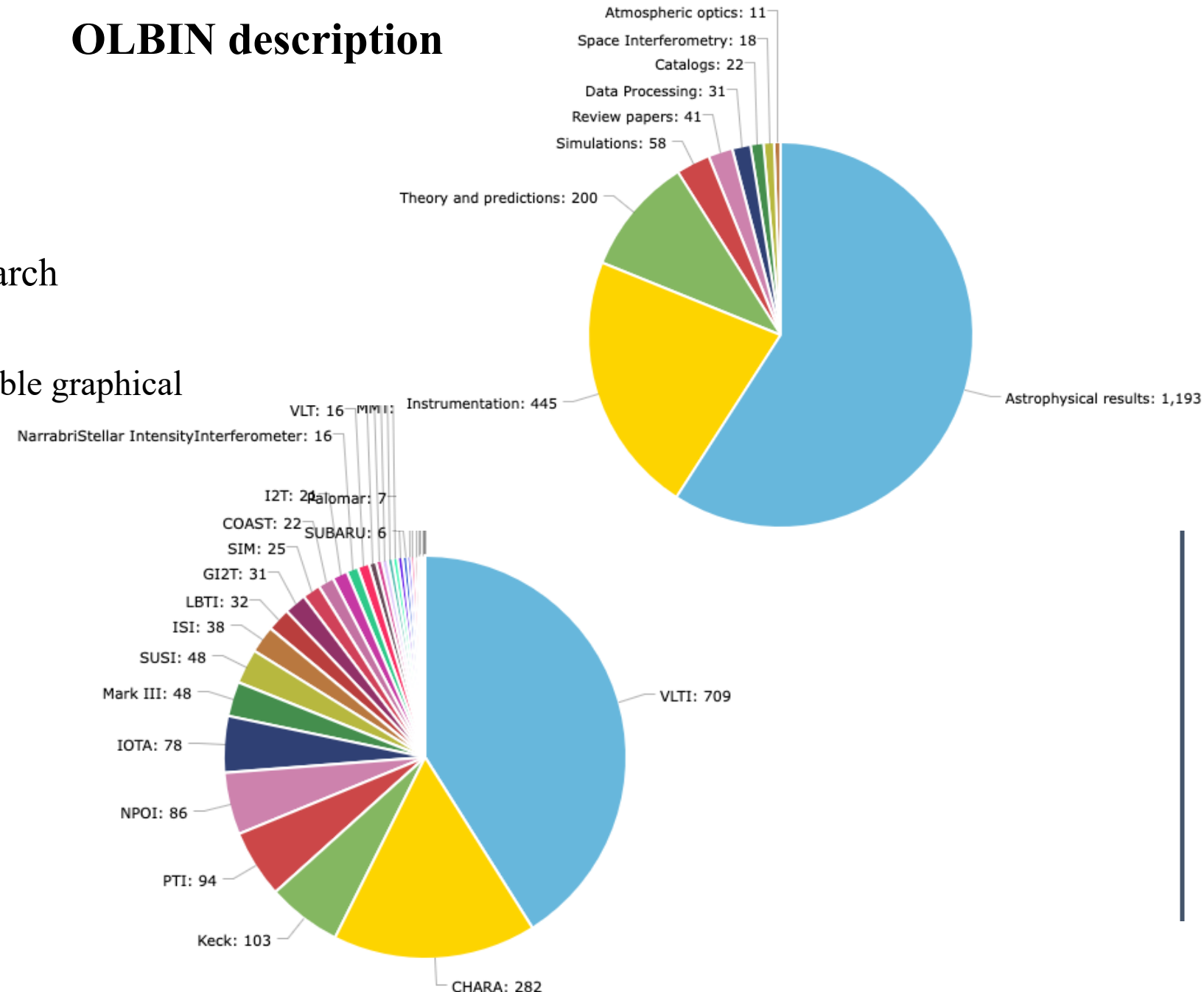
Select the tag checkbox(es) you want for your search and select the proper operator. ☐ OR ☒ AND [Submit Query](#)

MainCategory (2019)	Facility (1727)	Instrument (1147)	Astrophysical topic (1906)	Wavelength (1486)	Spectral Resolution (801)	Technique (1846)
☐ Astrophysical results (1193) ☐ Atmospheric optics (11) ☐ Catalogs (22) ☐ Data Processing (31) ☐ Instrumentation (445) ☐ Review papers (41) ☐ Simulations (58) ☐ Space Interferometry (18) ☐ Theory and predictions (200)	☐ AAT (7) ☐ C2PU (1) ☐ CHARA (282) ☐ COAST (22) ☐ Gemini (2) ☐ GI2T (31) ☐ HESS (3) ☐ HYPERTELESCOPES (10) ☐ I2T (21) ☐ IACT (7) ☐ IOTA (78) ☐ IRMA (5) ☐ ISI (38) ☐ JWST (8) ☐ Keck (103)	☐ ALOHA (1) ☐ AMBER (187) ☐ ASGARD (1) ☐ CLASSIC (59) ☐ CLIMB (29) ☐ FIRST (2) ☐ FLUOR (44) ☐ GLINT (3) ☐ GPI (1) ☐ GRAVITY (170)	☐ accretion disk (9) ☐ Active Galactic Nuclei (68) ☐ AGB and Post-AGB stars (73) ☐ Ap stars (3) ☐ Asteroids (5) ☐ Be stars (76) ☐ Binary and multiple stars (297) ☐ Black holes (11) ☐ Brown Dwarves (6) ☐ B[e] stars (22) ☐ Calibrators (7) ☐ Carbon stars (17)	☐ Far Infrared (1) ☐ Mid infrared (306) ☐ Near Infrared (896) ☐ Visible domain (283)	☐ Broad band (122) ☐ High resolution (111) ☐ Low spectral resolution (382) ☐ Medium resolution (129) ☐ Narrow band (57)	☐ Astrometry (83) ☐ Beam combiners (2) ☐ Closure phases (361) ☐ Differential astrometry (33) ☐ Differential imaging (1) ☐ Differential phase (108) ☐ Differential visibility (18) ☐ Fiber linked Interferometry (15) ☐ Fibers (10)

OLBIN description

How it is used

- To make personal bibliographic research
- To easily visualize the OI field
 - with EZVis software via an accessible graphical interface
 - examples of Tags distributions
"Main category" & "Instrument"

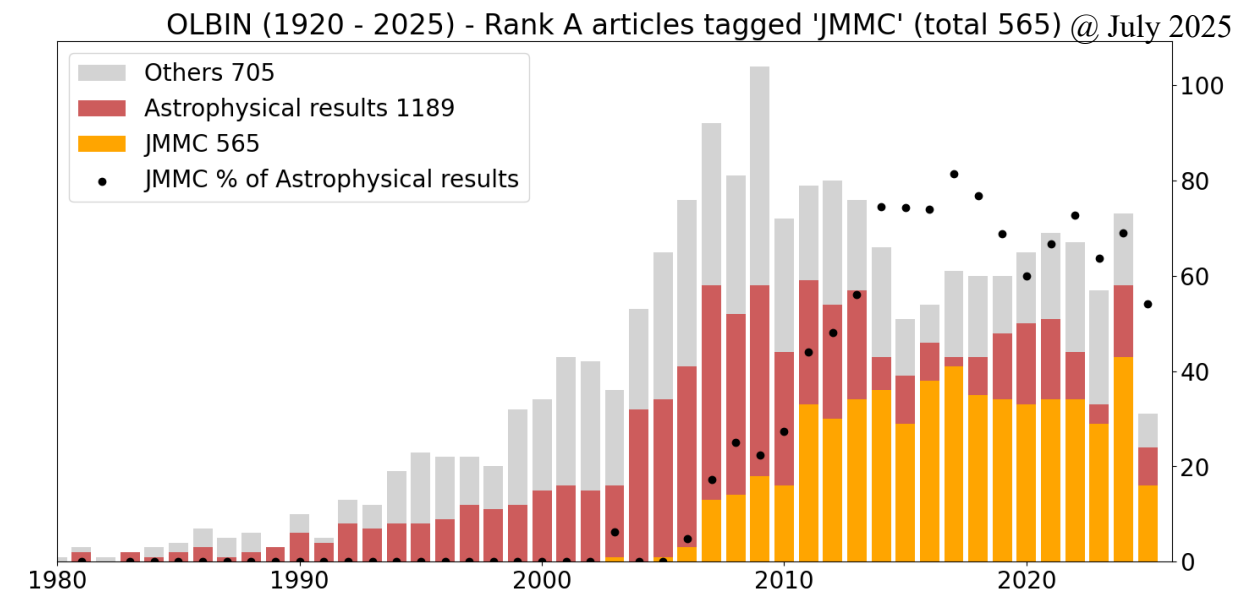


OLBIN description

How it is used

- To make personal bibliographic research
- **To easily visualize the OI field**
 - with **EZVis** software via an accessible graphical interface
 - with **jupyter notebooks** – open access
 - temporal histograms

Possible estimation of the impact with time of each Tag, as, for example, an instrument, or an astrophysical topic, ..., or the set of the JMMC tools (for internal useful metric).

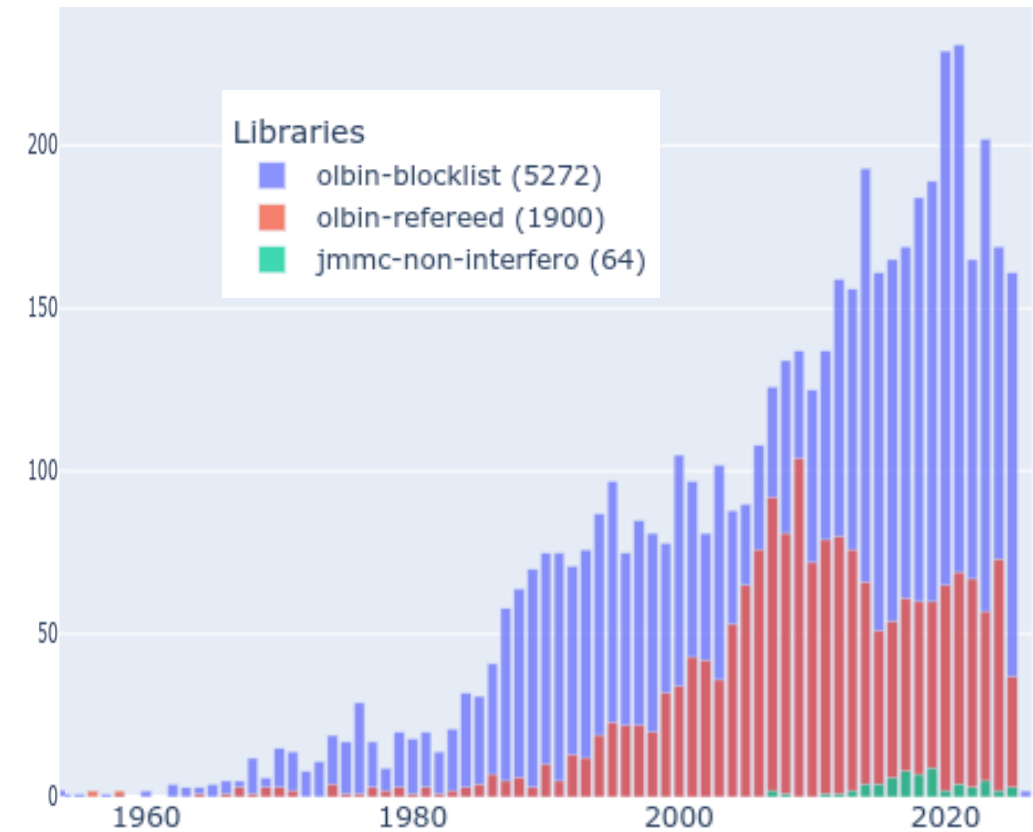


<https://github.com/JMMC-OpenDev/jmmc-python-snippets/blob/main/olbin-pubs.ipynb>

OLBIN description

OLBIN some numbers

- **1900** publications – (*Sept.2025*)
- **~200** publications to review annually - *since ~2010*
- **15-20** publications to review monthly
- **~1:3 ratio:** 1 publication selected for 3 rejected -
over [2010-2024]



OLBIN evolution

- **Need for updates**

- Review Tags list
- Improve internal process
- Upgrade graphics delivery

- **With an AI instead of an "operator"?**

- Relatively small number of publications to review
 - human reach
- Not a constraining charge
 - intrinsic interest of the *operator* (an OI researcher) in learning about new publications in the OI field
 - feeding OLBIN itself is not time consuming
- Human expertise efficient to estimate the relevance of new astrophysical results from already published OI data (*one of the OLBIN criteria*)

Rather NO but open question