

The Science Explorer: The new digital library of Space Science



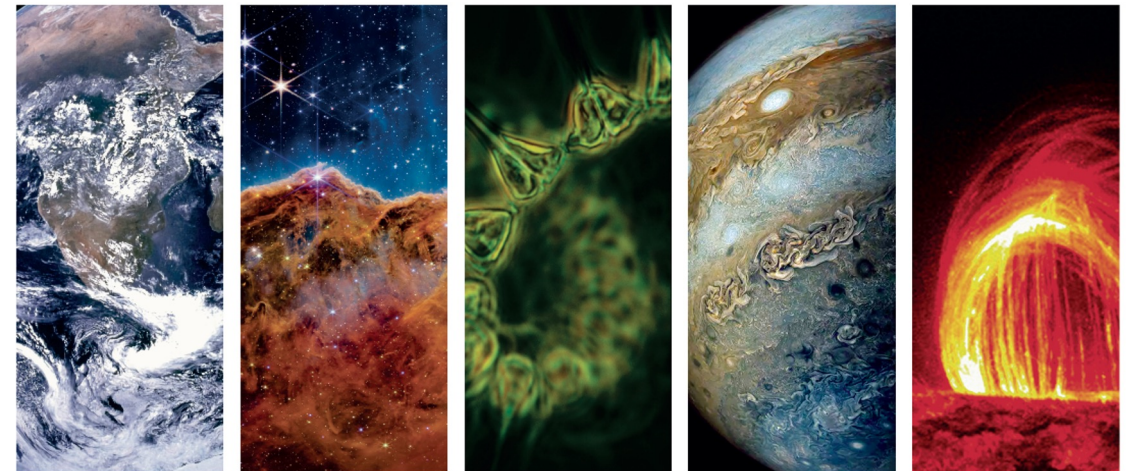
SciX

[www.SciXplorer.org]

Simon Anghel and the SciX Team

LTE, Paris Observatory

Center for Astrophysics | Harvard & Smithsonian



CENTER FOR
ASTROPHYSICS
HARVARD & SMITHSONIAN

NASA Science Explorer

Accelerating the discovery of NASA Science.

What is The Science Explorer?

SciX is a **new literature portal** that was just launched as part of the **expansion** of the **NASA Astrophysics Data System (ADS)**, a digital library focusing on **Space Science research**.


<https://SciXplorer.org>

The screenshot shows the SciXplorer website. At the top, there is a navigation bar with the SciX BETA logo, a dropdown menu set to "General Science", and links for Feedback, ORCID, About, Help, Account, and a moon icon. Below this is a banner with the Science Explorer BETA logo. A search bar is present with a "QUICK FIELD:" dropdown showing options: author, first author, abstract, year, and fulltext, and a "all search terms" dropdown. The main content area features a "WELCOME TO THE SciX Digital Library" heading. Below this is a video player with a space-themed background, displaying the SciX logo and the text "brought to you by astrophysics data system". The video title is "Learn more about the SciX digital library and how it can support your scientific research in this welcome video and brief user tutorial from Dr. Stephanie Jarmak." and the URL "Xplorer.org" is visible. Navigation arrows and a progress bar are also present.






What is The Science Explorer?


SciX is a literature-based,
**open digital information
system** covering and unifying
the research disciplines
**funded by the NASA Science
Mission Directorate.**

<https://SciXplorer.org>




General Science


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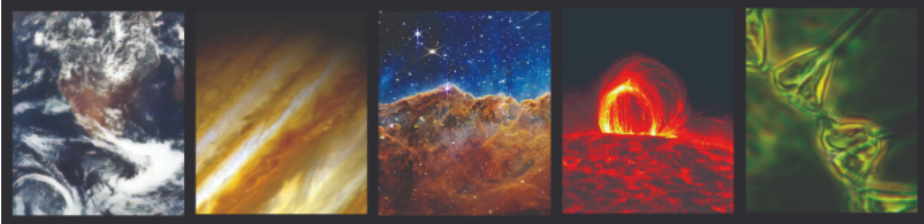
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all search terms 

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EXPLORE ACROSS
Science Focus Areas





NASA SciX covers and unifies the fields of Earth Science, Planetary Science, Astrophysics, and Heliophysics. It will also cover NASA funded research in Biological and Physical Sciences.



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SciX is a project created by the Astrophysics Data System (ADS), which is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement 80NSSC21M0056.

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What is The Science Explorer?


SciX supports NASA's
Open Science efforts and
enables interdisciplinary
research and
collaboration.

<https://SciXplorer.org>





General Science

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DISCOVER

Open Science

SciX is part of the NASA Open Source Science Initiative. SciX supports open science principles, expanding access & accelerating scientific discovery for societal benefit.



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Why **The Science Explorer (SciX)**?

NASA's Science Mission Directorate in 2019 calls for the creation of **interdisciplinary literature portal** in support of Open Science.

Over the next three years, the ADS team will be developing and expanding the **The Science Explorer** to include all relevant **NASA content**.

Partner:



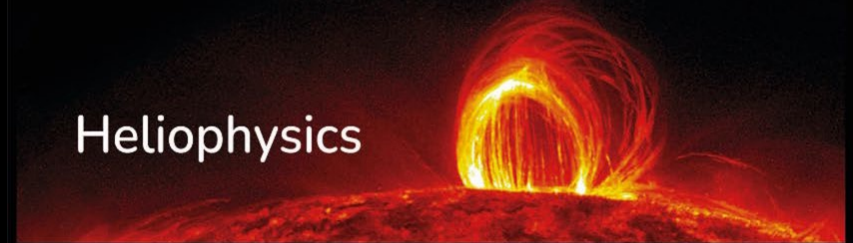
<https://SciXplorer.org>

Earth Science



Planetary Science

Heliophysics



Astrophysics




Biological &
Physical Sciences








What is The Science Explorer?


The **Science Explorer**, or SciX for short, is available as a beta release at the following website:
<https://SciXplorer.org>

While the system is still under development, it **already provides a wealth of information and functionality ready for use.**





General Science

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QUICK FIELD: [author](#) [first author](#) [abstract](#) [year](#) [fulltext](#)






all search terms 

Search... 

Search Examples

author	author:"penrose, roger"	citations	citations(abstract:JWST)
first author	author:"^penrose, roger"	refereed	property:refereed
abstract+title	abs:"black hole"	collection	collection:astronomy
year	year:2000	exact search	=body:"reproducibility"
year range	year:2000-2005	institution	inst:NASA
full text	full:"black hole"	record type	doctype:software
publication	bibstem:ApJ		





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abstract

year

fulltext

all search terms

chara array

WELCOME TO THE SciX Digital Library



Learn more about the SciX digital library and how it can support your scientific research in this welcome video and brief user tutorial from Dr. Stephanie Jarmak.

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613 results, sorted by relevance

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QUICK FIELD:

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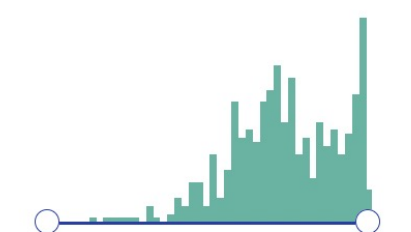
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chara array

Your search returned 613 results

Filters

Year(s)



Author

Collections

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Keywords

Publications

Bibgroups

astronomy

physics

earthscience

notrefereed

refereed

Relevance

Select All

Bulk Actions

Explore

1

The Orbit and Dynamical Mass of Polaris: Observations with the CHARA Array

Evans, Nancy Remage; Schaefer, Gail H.; Gallenne, Alexandre; Torres, Guillermo; Horch, Elliott P.; Anderson, Richard I.; Monnier, John D.; Roettenbacher, Rachael M.; Baron, Fabien; Anugu, Narsireddy; and 12 more

2024/08 · The Astrophysical Journal · cited: 6

2

First Results from the CHARA Array. II. A Description of the Instrument

ten Brummelaar, T. A.; McAlister, H. A.; Ridgway, S. T.; Bagnuolo, W. G., Jr.; Turner, N. H.; Sturmann, L.; Sturmann, J.; Berger, D. H.; Ogden, C. E.; Cadman, R.; and 3 more

2005/07 · The Astrophysical Journal · cited: 443

3

The CHARA Array Integrated Optics Testbed or CHARLOT

Scott, Nicholas; Madhav, Kalaga; Dinkelaker, Aline; Labadie, Lucas; show details

2024/02 · American Astronomical Society Meeting Abstracts

4

The Classic/climb Beam Combiner at the CHARA Array

Ten Brummelaar, T. A.; Sturmann, J.; Ridgway, S. T.; Sturmann, L.; Turner, N. H.; McAlister, H. A.; Farrington, C. D.; Beckmann, U.; Weigelt, G.; Shure, M.; show details

2013/12 · Journal of Astronomical Instrumentation · cited: 43

5

FLUOR fibered beam combiner at the CHARA array

Coudé du Foresto, Vincent; Borde, Pascal J.; Merand, Antoine; Baudouin, Cyrille; Remond, Antonin; Perrin, Guy S.; Ridgway, Stephen T.; ten Brummelaar, Theo A.; McAlister, Harold A.; show details

2003/02 · Interferometry for Optical Astronomy II · cited: 58

Example search:

chara array

613 results, sorted by relevance
516 published in the last 20 years

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abstract

year

fulltext

all search terms

chara array

X

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Your search returned 516 results

range: 2005-2025 X

Remove all filters

Filters

Year(s)

> Author

> Collections

- astronomy 508
- physics 87
- earthscience 4

> Refereed

- notrefereed 332
- refereed 184

> Institutions

> Keywords

> Publications

Relevance

Select All

Bulk Actions

Explore

1

The Orbit and Dynamical Mass of Polaris: Observations with the CHARA Array

Evans, Nancy Remage; Schaefer, Gail H.; Gallenne, Alexandre; Torres, Guillermo; Horch, Elliott P.; Anderson, Richard I.; Monnier, John D.; Roettenbacher, Rachael M.; Baron, Fabien; Anugu, Narsireddy; and 12 more

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The CHARA Array Integrated Optics Testbed or CHARIOT

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The Classic/climb Beam Combiner at the CHARA Array

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2013/12 · Journal of Astronomical Instrumentation · cited: 43

MIRC-X: A Highly Sensitive Six-telescope Interferometric Imager at the CHARA

Example search:

chara array

613 results, sorted by relevance
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176 with data products

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author

first author

abstract

year

fulltext

all search terms

chara array property:data

X

🔍

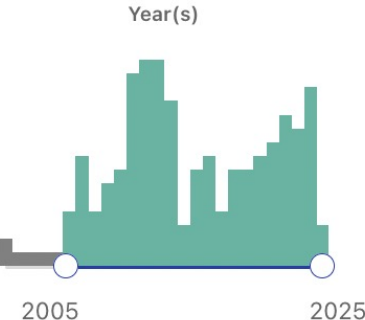
Your search returned 176 results

range: 2005-2025

Remove all filters

Filters

Year(s)



Author

Collections

Refereed

Institutions

Keywords

Publications

Bibgroups

SIMBAD Objects

astronomy

176

Relevance

Select All

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Explore

1

The Orbit and Dynamical Mass of Polaris: Observations with the CHARA Array

Evans, Nancy Ramage; Schaefer, Gail H.; Gallenne, Alexandre; Torres, Guillermo; Horch, Elliott P.; Anderson, Richard I.; Monnier, John D.; Roettenbacher, Rachael M.; Baron, Fabien; Anugu, Narsireddy; and 12 more

2024/08 · The Astrophysical Journal · cited: 6

2

The CHARA Array Interferometric Program on the Multiplicity of Classical Be Stars: New Detections and Orbits of Stripped Subdwarf Companions

Klement, Robert; Rivinius, Thomas; Gies, Douglas R.; Baade, Dietrich; Mérand, Antoine; Monnier, John D.; Schaefer, Gail H.; Lanthermann, Cyprien; Anugu, Narsireddy; Kraus, Stefan; and 1 more

2024/02 · The Astrophysical Journal · cited: 17

3

MIRC-X: A Highly Sensitive Six-telescope Interferometric Imager at the CHARA Array

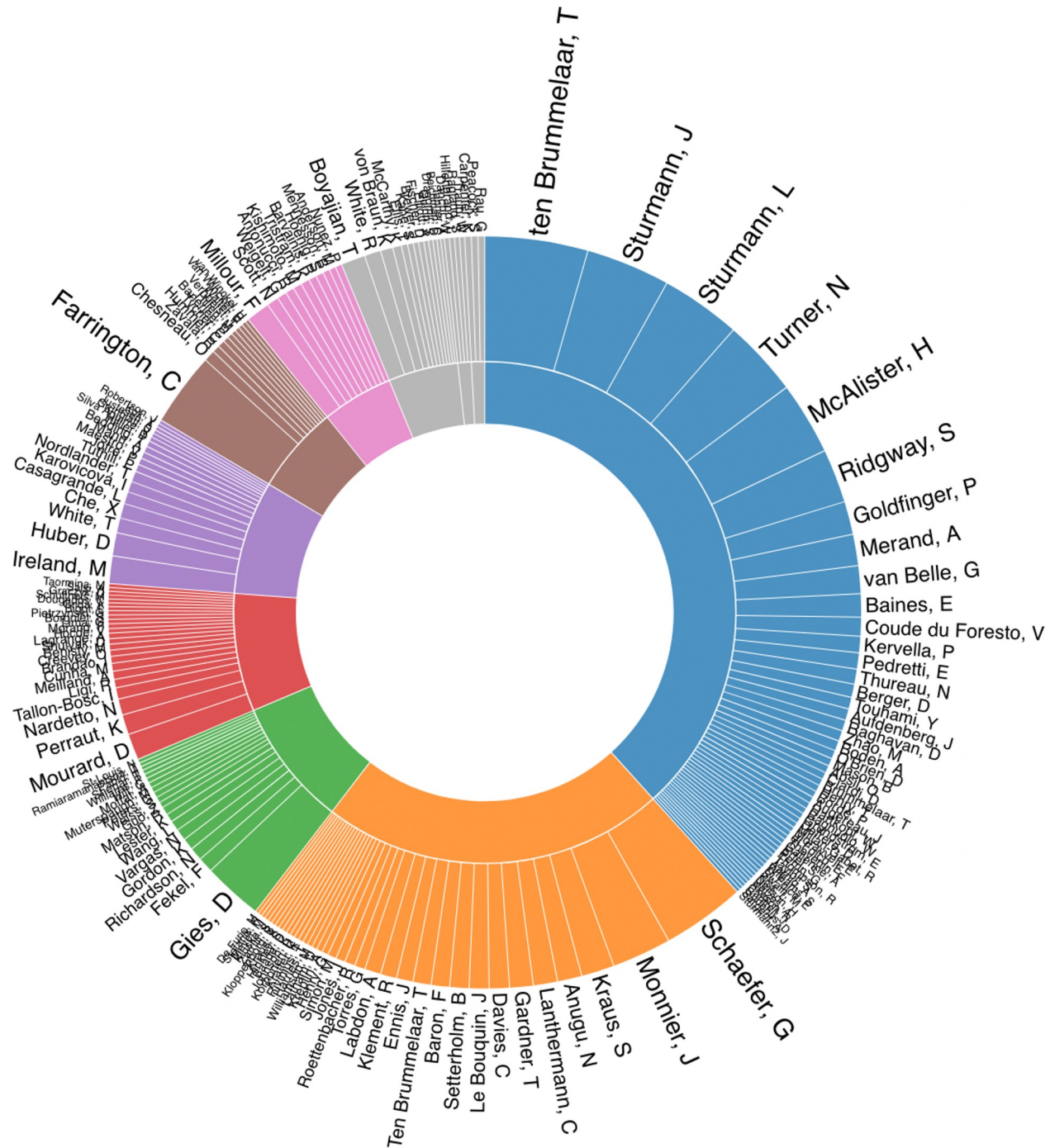
Anugu, Narsireddy; Le Bouquin, Jean-Baptiste; Monnier, John D.; Kraus, Stefan; Setterholm, Benjamin R.; Labdon, Aaron; Davies, Claire L.; Lanthermann, Cyprien; Gardner, Tyler; Ennis, Jacob; and 4 more

2020/10 · The Astronomical Journal · cited: 70

The Great Dimming of the Hypergiant Star RW Cephei: CHARA Array Images and Spectral Analysis

chara array

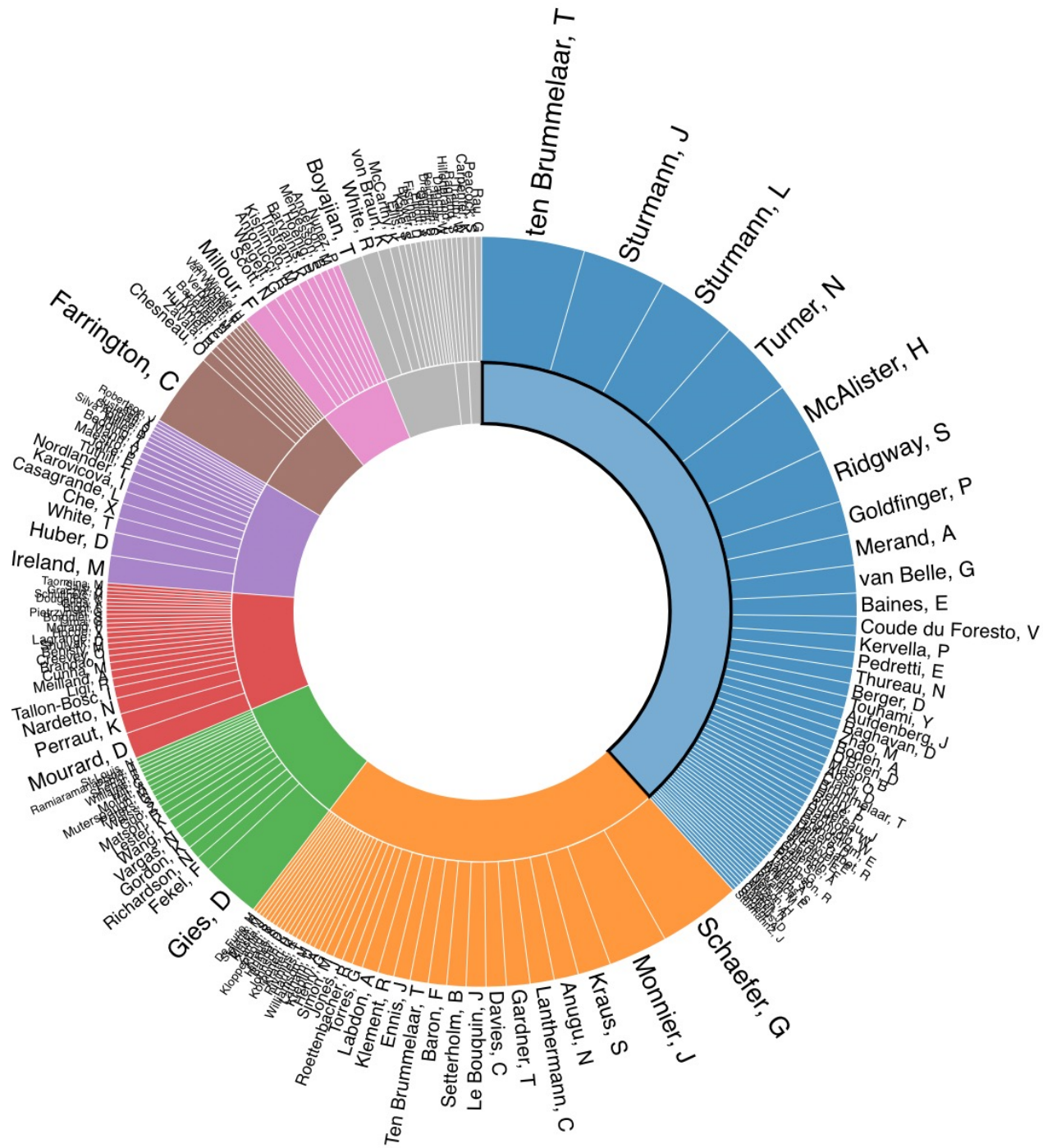
8 collaboration groups detected



Example search:

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613 results, sorted by relevance
516 published in the last 20 years
176 with data products
8 collaboration groups detected
1 group selected



Example search:

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613 results, sorted by relevance
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176 with data products
8 collaboration groups detected
1 group selected
137 papers authored by group

Summary

Detail

Group 1

Add to filter

Total papers: 137, most recent: 2025

First Results from the CHARA Array. VII. Long-Baseline Interferometric Measurements of Vega Consistent with a Pole-On, Rapidly Rotating Star

13 authors from this group cited: 174

Circumstellar material in the Vega inner system revealed by CHARA/FLUOR

14 authors from this group cited: 137

First Results from the CHARA Array. IV. The Interferometric Radii of Low-Mass Stars

10 authors from this group cited: 140

A near-infrared interferometric survey of debris disk stars. I. Probing the hot dust content around ϵ Eridani and τ Ceti with CHARA/FLUOR

14 authors from this group cited: 109

Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars

11 authors from this group cited: 523

Extended envelopes around Galactic Cepheids. II. Polaris and δ Cephei from near-infrared interferometry with CHARA/FLUOR

12 authors from this group cited: 97

First Results from the CHARA Array. I. An Interferometric and Spectroscopic Study of the Fast Rotator α Leonis (Regulus)

12 authors from this group cited: 147

Colder and Hotter: Interferometric Imaging of β Cassiopeiae and α Leonis

10 authors from this group cited: 120

Example search:

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613 results, sorted by relevance
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137 papers authored by group
View papers sorted by citations

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QUICK FIELD:

author

first author

abstract

year

fulltext

all search terms

chara array property:data

X

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Your search returned 137 results with 5,409 total citations

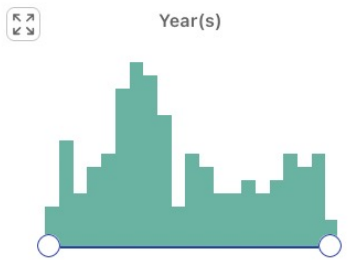
range: 2005-2025

selection: be60a8360d02c1

Remove all filters

Filters

Year(s)



2005

2025

> Author

> Collections

> Refereed

> Institutions

GSU

117

>

U MI

53

>

NOAO

52

>

U Grenoble Alpes

40

>

UJF Grenoble

40

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ESO

32

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Obs Cote d'Azur

27

>

U Exeter

26

>

Caltech

23

>

U Nice

23

>

Citation Count

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Select All

Bulk Actions

Explore

1

Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars

Boyajian, Tabetha S.; von Braun, Kaspar; van Belle, Gerard; McAlister, Harold A.; ten Brummelaar, Theo A.; Kane, Stephen R.; Muirhead, Philip S.; Jones, Jeremy; White, Russel; Schaefer, Gail; and 14 more

2012/10 · The Astrophysical Journal · cited: 523

2

Stellar Diameters and Temperatures. III. Main-sequence A, F, G, and K Stars: Additional High-precision Measurements and Empirical Relations

Boyajian, Tabetha S.; von Braun, Kaspar; van Belle, Gerard; Farrington, Chris; Schaefer, Gail; Jones, Jeremy; White, Russel; McAlister, Harold A.; ten Brummelaar, Theo A.; Ridgway, Stephen; and 6 more

2013/07 · The Astrophysical Journal · cited: 201

3

Fundamental Properties of Stars Using Asteroseismology from Kepler and CoRoT and Interferometry from the CHARA Array

Huber, D.; Ireland, M. J.; Bedding, T. R.; Brandão, I. M.; Piau, L.; Maestro, V.; White, T. R.; Bruntt, H.; Casagrande, L.; Molenda-Žakowicz, J.; and 30 more

2012/11 · The Astrophysical Journal · cited: 194

4

Stellar Diameters and Temperatures. I. Main-sequence A, F, and G Stars

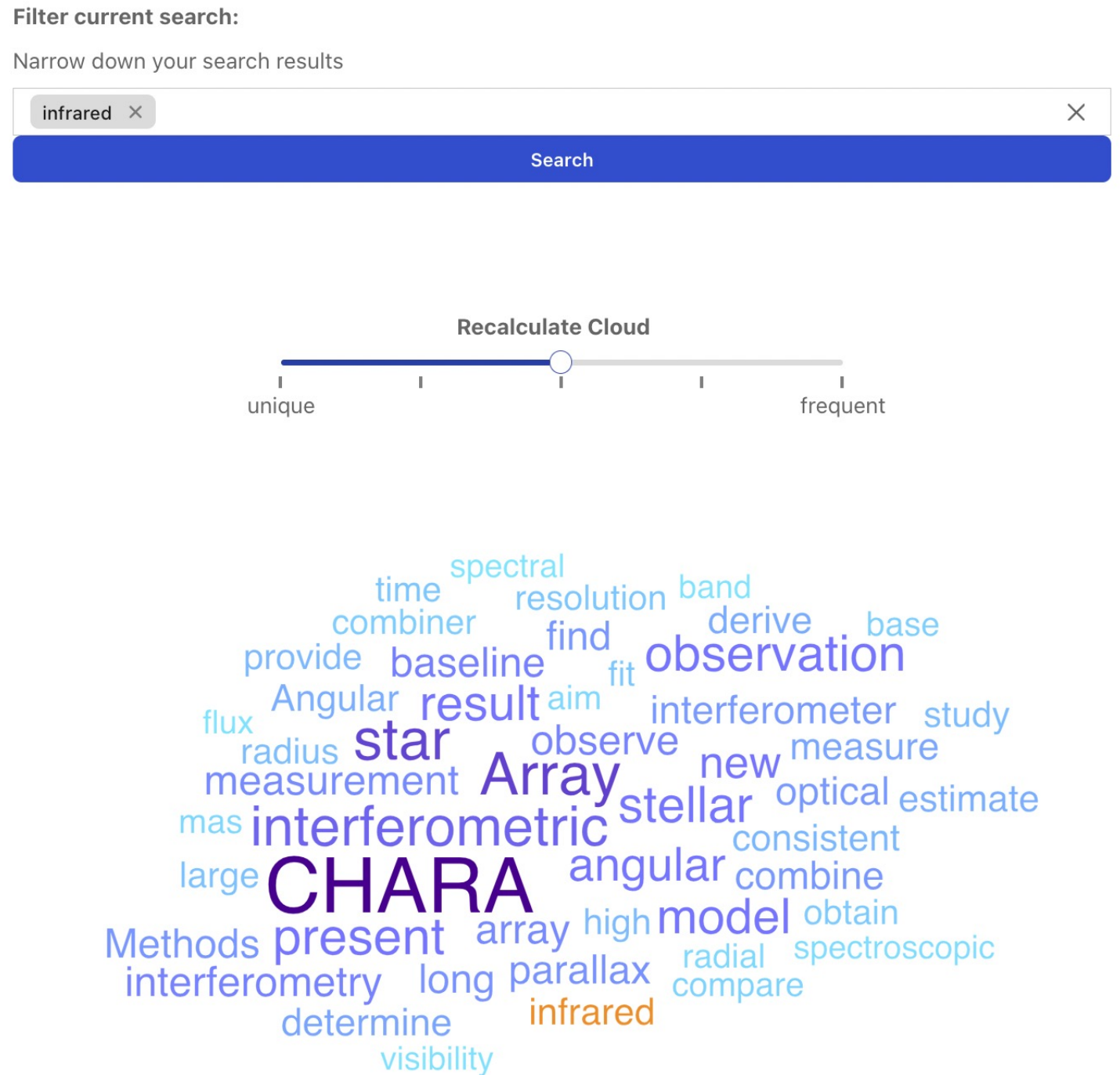
Boyajian, Tabetha S.; McAlister, Harold A.; van Belle, Gerard; Gies, Douglas R.; ten Brummelaar, Theo A.; von Braun, Kaspar; Farrington, Chris; Goldfinger, P. J.; O'Brien, David; Parks, J. Robert; and 8 more

2012/02 · The Astrophysical Journal · cited: 178

First Results from the CHARA Array. VII. Long-Baseline Interferometric Measurements of Vega Consistent with a Pole-On, Rapidly Rotating Star

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613 results, sorted by relevance
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176 with data products
8 collaboration groups detected
1 group selected
137 papers authored by group
View papers sorted by citations
View & select concepts in papers



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chara array

613 results, sorted by relevance
516 published in the last 20 years
176 with data products
8 collaboration groups detected
1 group selected
137 papers authored by group
View papers sorted by citations
View & select concepts in papers
81 papers containing “infrared”

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QUICK FIELD:

author

first author

abstract

year

fulltext

all search terms

chara array property:data

X

Q

Your search returned 81 results with 3,691 total citations

range: 2005-2025 X

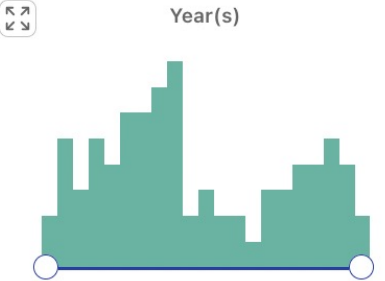
selection: be60a8360d02c1: X

wordcloud: infrared X

Remove all filters

Filters

Year(s)



20052025

> Author

> Collections

> Refereed

refereed71

notrefereed10

> Institutions

> Keywords

Citation Count

Select All

Bulk Actions

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1

Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars

Boyajian, Tabetha S.; von Braun, Kaspar; van Belle, Gerard; McAlister, Harold A.; ten Brummelaar, Theo A.; Kane, Stephen R.; Muirhead, Philip S.; Jones, Jeremy; White, Russel; Schaefer, Gail; and 14 more

2012/10 · The Astrophysical Journal · cited: 523

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Stellar Diameters and Temperatures. III. Main-sequence A, F, G, and K Stars: Additional High-precision Measurements and Empirical Relations

Boyajian, Tabetha S.; von Braun, Kaspar; van Belle, Gerard; Farrington, Chris; Schaefer, Gail; Jones, Jeremy; White, Russel; McAlister, Harold A.; ten Brummelaar, Theo A.; Ridgway, Stephen; and 6 more

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Stellar Diameters and Temperatures. I. Main-sequence A, F, and G Stars

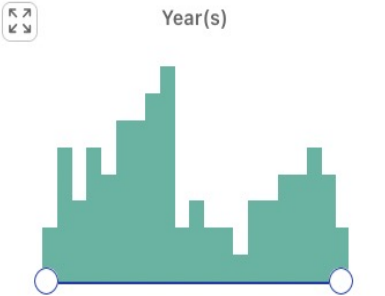
Boyajian, Tabetha S.; McAlister, Harold A.; van Belle, Gerard; Gies, Douglas R.; ten Brummelaar, Theo A.; von Braun, Kaspar; Farrington, Chris; Goldfinger, P. J.; O'Brien, David; Parks, J. Robert; and 8 more

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1 group selected
137 papers authored by group
View papers sorted by citations
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81 papers containing “infrared”
72 of which have SIMBAD data

Year(s)



20052025

> Author

> Collections

astronomy81

> Refereed

refereed71

notrefereed10

> Institutions

> Keywords

> Publications

> Bibgroups

> SIMBAD Objects

> NED Objects

> Data

☒ SIMBAD72

☐ IRSA32

☐ CDS23

☐ ESO8

☐ DATASOURCE7

☐ MAST3

☐ ESA2

Select All

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1

Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars

Boyajian, Tabettha S.; von Braun, Kaspar; van Belle, Gerard; McAlister, Harold A.; ten Brummelaar, Theo A.; Kane, Stephen R.; Muirhead, Philip S.; Jones, Jeremy; White, Russel; Schaefer, Gail; [and 14 more](#)

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2012/02 · The Astrophysical Journal · cited: 178

4

First Results from the CHARA Array. I. An Interferometric and Spectroscopic Study of the Fast Rotator α Leonis (Regulus)

McAlister, H. A.; ten Brummelaar, T. A.; Gies, D. R.; Huang, W.; Bagnuolo, W. G., Jr.; Shure, M. A.; Sturmman, J.; Sturmman, L.; Turner, N. H.; Taylor, S. F.; [and 6 more](#)

2005/07 · The Astrophysical Journal · cited: 147

5

First Results from the CHARA Array. IV. The Interferometric Radii of Low-Mass Stars

Berger, D. H.; Gies, D. R.; McAlister, H. A.; ten Brummelaar, T. A.; Henry, T. J.; Sturmman, J.; Sturmman, L.; Turner, N. H.; Ridgway, S. T.; Aufdenberg, J. P.; [and 1 more](#)

2006/06 · The Astrophysical Journal · cited: 140

6

Circumstellar material in the Vega inner system revealed by CHARA/FLUOR

Absil, O.; di Folco, E.; Mérand, A.; Augereau, J. -C.; Coudé du Foresto, V.; Aufdenberg, J. P.; Kervella, P.; Ridgway, S. T.; Berger, D. H.; ten Brummelaar, T. A.; [and 4 more](#)

2006/06 · Astronomy and Astrophysics · cited: 137

Data (1)

limit to

exclude

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613 results, sorted by relevance
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176 with data products
8 collaboration groups detected
1 group selected
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81 papers containing “infrared”
72 of which have SIMBAD data
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Viscous heating in the disk of the outbursting star FU Orionis

Labdon, Aaron ; Kraus, Stefan ; Davies, Claire L. ; Kreplin, Alexander ; Monnier, John D. ; Le Bouquin, Jean-Baptiste ; Anugu, Narsireddy ; ten Brummelaar, Theo ; Setterholm, Benjamin ; Gardner, Tyler ; Ennis, Jacob ; Lanthermann, Cyprien ; Schaefer, Gail ; Laws, Anna [show details](#)

Context. FU Orionis is the archetypal FUor star, a subclass of young stellar objects (YSOs) that undergo rapid brightening events, often gaining between four and six magnitudes on timescales of days. This brightening is often associated with a massive increase in accretion, which is one of the most ubiquitous processes in astrophysics for bodies ranging from planets and stars to super-massive black holes. We present multi-band interferometric observations of the FU Ori circumstellar environment, including the first J-band interferometric observations of a YSO.

Aims: We investigate the morphology and temperature gradient of the innermost regions of the accretion disk around FU Orionis. We aim to characterise the heating mechanisms of the disk and comment on potential outburst-triggering processes.

Methods: Recent upgrades to the MIRC-X instrument at the CHARA array have allowed for the first dual-band J and H observations of YSOs. Using baselines up to 331 m, we present high-angular-resolution data of a YSO covering the near-infrared bands J, H, and K. The unprecedented spectral range of the data allowed us to apply temperature gradient models to the innermost regions of FU Ori.

Results: We spatially resolved the innermost astronomical unit of the disk and determine the exponent of the temperature gradient of the inner disk to $T \propto r^{-0.74 \pm 0.02}$. This agrees with theoretical works that predict $T \propto r^{-0.75}$ for actively accreting, steady-state disks, which is a value only obtainable through viscous heating within the disk. We found a disk that extends down to the stellar surface at 0.015 ± 0.007 au, where the temperature is found to be 5800 ± 700 K. We found a disk inclined at $32 \pm 4^\circ$ with a minor-axis position angle of $34 \pm 11^\circ$.

Conclusions: We demonstrate that J-band interferometric observations of YSOs are feasible with the MIRC-X instrument at CHARA. The temperature gradient power-law derived for the inner disk is consistent with theoretical predictions for steady-state, optically thick, viciously heated accretion disks. Reduced data are only available at the CDS via anonymous ftp to <http://cdsarc.u-strasbg.fr> (ftp://130.79.128.5) or via <http://cdsarc.u-strasbg.fr/viz-bin/cat/J/A+A/646/A102>

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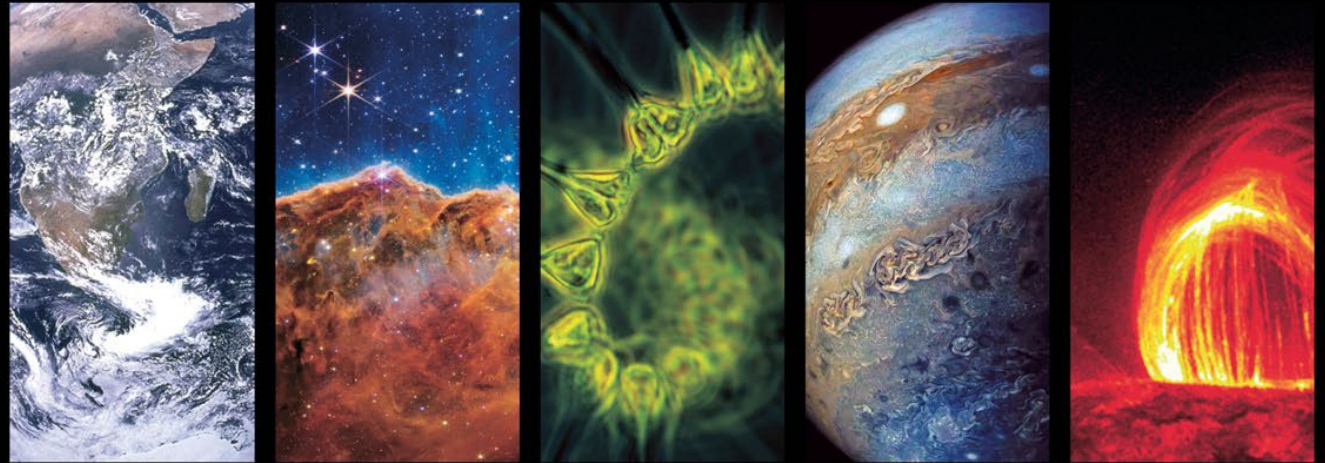
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