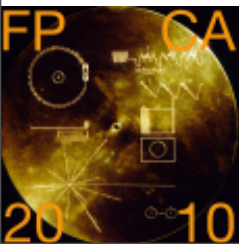


Telescope Bibliometrics 101

Uta Grothkopf & Jill Lagerstrom

ESO Library
esolib@eso.org

STScI Library
lagerstrom@stsci.edu



Future Professional Communication in Astronomy II

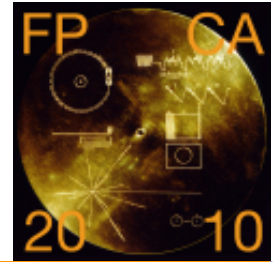
13-14 April 2010



Overview

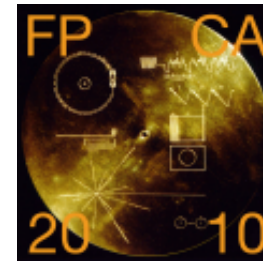
- Bibliometric Studies
 - ▶ What are they?
 - ▶ Who is interested?
- Linking Publications and Data
 - ▶ Access how and where?
- Telescope Bibliographies
 - ▶ Who compiles them? How?
 - ▶ Current tools, methodologies, features
 - ▶ What's next?

Bibliometric studies



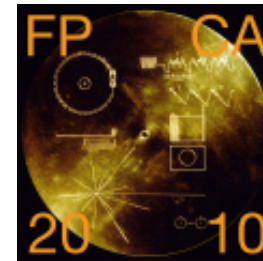
- Metrics to measure **productivity** and **impact** through publications and citations
- Long history (1960ies: Science Citation Index)
- Large number of articles on this topic

Title	Creator	Year	+	E
▶ The Cost-Effectiveness in Terms of Publications and ...	Abt	1980	1	
Some Trends in American Astronomical Publications	Abt	1981		
Citations to Single and Multiauthored Papers	Abt	1984		
Are Papers by Wellknown Astronomers Accepted for ...	Abt	1987		
What Happens to Rejected Astronomical Papers?	Abt	1988		
Growth Rates in Various Fields of Astronomy	Abt	1988		
▶ The Most Frequently Cited Astronomical Papers Publi...	Abt	2000	1	
▶ Changing sources for research literature	Abt	2007	1	
▶ PLoS One: background, future development, and artic...	Binfield	2009	3	
▶ Scholarly assessment in the digital era	Bollen	2008	1	
▶ A Principal Component Analysis of 39 Scientific Impa...	Bollen et al.	2009	2	
▶ Citation counts for research evaluation: standards of ...	Bornmann et al.	2008	1	
▶ Electronic publishing in astronomy	Boyce	1998	1	
▶ On Hirsch's h, Egghe's g and Kosmulski's h(2)	Burrell	2009	2	
▶ Astronomers and the Science Citation Index, 1981-1...	Burstein	2000	1	



Typical measures

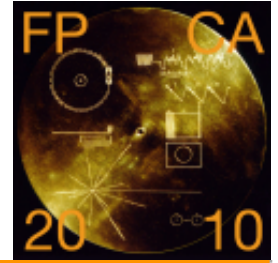
	Good	Bad
# Publications	productivity	no impact
# Citations	impact	can be inflated
Mean / median cites per paper	allows comparison of different ages	rewards low productivity
'High-Impact Papers'	shows trends	favors 'hot topics'
<i>h</i> -index	productivity + impact	determined by years of operation



Typical measures

	Good	Bad
# Publications	productivity	not
# Citations	imp	
mean / median cites per		was low productivity
	ows trends	favors 'hot topics'
index	productivity + impact	determined by years of operation

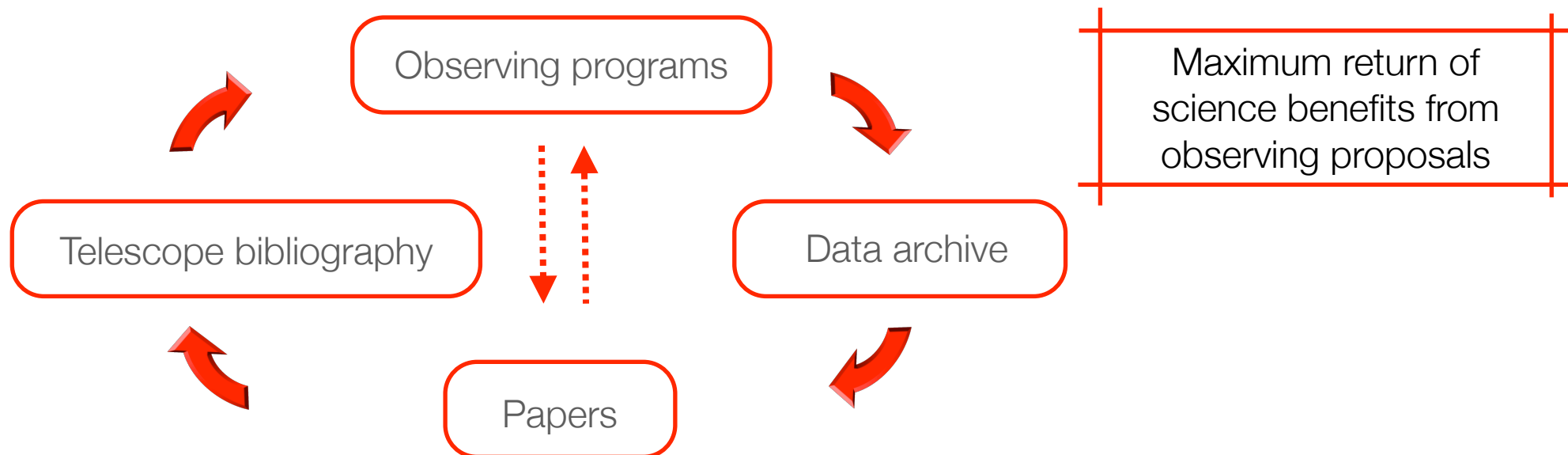
Handle with care!



Who is interested?

Scientists, management, governing bodies, funding agencies who want to...

- ▶ Evaluate performance of telescopes and instruments
- ▶ Measure scientific output from observing programs
- ▶ Define guidelines for future facilities
- ▶ Compare in-house facilities with other observatories and telescopes
- ▶ Interconnect resources (Virtual Observatory)



Linking publications and data (1)



Access through observatories' web sites

<http://www.eso.org/libraries/publicationlists.html>

The screenshot shows the ESO Telescope Bibliographies website. The header includes the ESO logo and the text 'European Southern Observatory'. The main navigation bar contains links for 'ESO Home', 'User Portal', 'Contact', 'Site Map', 'Search', and 'Go!'. The page title is 'Telescope Bibliographies' with the tagline 'ESO — Reaching New Heights in Astronomy'. The main content area is divided into two columns: 'Ground-based Observatories' and 'Space-based Observatories'. The 'Ground-based Observatories' column lists the Canada-France-Hawaii Telescope (CFHT), European Southern Observatory (ESO), and Gemini Observatory. The 'Space-based Observatories' column lists ASCA, Chandra, FUSE, and HST. A sidebar on the left provides 'Science Users Information' and 'Libraries' links. A right sidebar contains a contact form with fields for name, email, and question, and a 'Contact the Library' link.

Telescope Bibliographies
ESO — Reaching New Heights in Astronomy

ESO Home User Portal Contact Site Map Search Go!

Science Users Information > Libraries 06 Apr 2010

Science Users Information
Observing Facilities
Future Facilities
Observing Information
Science Software and Tools
Data Handling and Products
Science Archive Facility
Science Activities
Scientific Meetings
IT Services
Libraries
Electronic Journals
Electronic Books
ESO Telescope Bibliography
Libraries Catalog
Publications
Job Opportunities

Ground-based Observatories

- Canada-France-Hawaii Telescope (CFHT)**
CFHT Refereed Publications
(via ADS; select References in: CFHT)
- European Southern Observatory (ESO)**
VLT (Very Large Telescope) and La Silla Observatory Bibliography
Basic ESO statistics
- Gemini Observatory**
Publications arising from Gemini data
The 500th refereed Gemini paper (incl. statistics)

Space-based Observatories

- ASCA (Advanced Satellite for Cosmology and Astrophysics)**
HEASARC Bibliographic Code Status (NASA's HEASARC:Archive)
ASCA Bibliographies
- Chandra**
Chandra Bibliography Search
Chandra Bibliographic Statistics
- FUSE (Far Ultraviolet Spectroscopic Explorer)**
FUSE Publications
- HST (Hubble Space Telescope)**

Contact the Library
General | Checkout | Request Item

*Which library?
 Garching Santiago

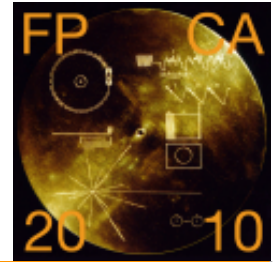
*Name:


*Email:

*Question:


Note: Please mention whether

Example: Chandra





Chandra Bibliography Search



Search Clear Form

You may enter multiple objects, obsids or bibcodes. Separate each with a comma.

Object	<input type="text"/>	Observation ID	<input type="text"/>
Resolve Object with SIMBAD	<input type="button" value="Resolve Name"/>	Chandra Data Set	<input type="text" value="ChandraDeepFieldN"/>
ADS Bibcode	<input type="text"/>		

This option performs a cone search. Coordinates should be entered in decimal degrees or in the format HH MM SS.SS for RA and DD MM SS.SS for Dec. Leave radius blank to perform an exact search.

[Coordinate Search](#) RA: Dec: Radius: arcmin

[Keyword Search](#) and or

Type each keyword on a new line

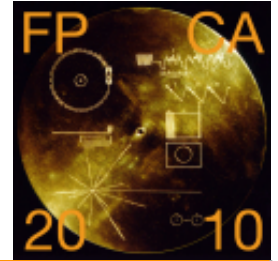
[List of standard keywords](#)

Or click below to use standard keyword search

Select 'yes' to include in selection, 'no' to exclude from selection, or 'N/A' to ignore in selection.

Instrument	Publication Form	Publication Type	Category	Associated Subjects
<input checked="" type="radio"/> and <input type="radio"/> or	<input type="text" value="N/A"/> <input type="text" value="erratum"/>	<input type="text" value="N/A"/> <input type="text" value="multimedia"/>	<input type="text" value="N/A"/> 1. presents specific observations	<input checked="" type="radio"/> and <input type="radio"/> or
<input type="text" value="N/A"/> <input type="text" value="ACIS"/>	<input type="text" value="N/A"/> <input type="text" value="article"/>	<input type="text" value="N/A"/> <input type="text" value="circular"/>	<input type="text" value="N/A"/> 2. refers to published results	<input type="text" value="N/A"/> <input type="text" value="multi-wavelength"/>
<input type="text" value="N/A"/> <input type="text" value="HRC"/>	<input type="text" value="N/A"/> <input type="text" value="data"/>	<input type="text" value="N/A"/> <input type="text" value="thesis"/>		<input type="text" value="N/A"/> <input type="text" value="theory"/>
<input type="text" value="N/A"/> <input type="text" value="HETG"/>	<input type="text" value="N/A"/> <input type="text" value="memo"/>	<input type="text" value="N/A"/> <input type="text" value="on-line data catalogue"/>		<input type="text" value="N/A"/> <input type="text" value="follow-up"/>

Example: HST



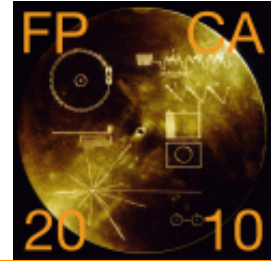
HST Bibliography Search

[STScI Library](#) [The Institute](#) [Collection Methodology](#) [Publication Statistics](#)

Welcome to the HST Bibliography!
Here you may search the collection of refereed papers that use HST data.

Author(s)	<input type="text"/>	e.g. Smith, J or Smith) To search for more than one author, separate names with ; (e.g. Smith, J; Jones, J) will find Smith, J OR Jones, J
	First Author only <input type="checkbox"/>	
Title	<input type="text"/>	galaxy - Finds titles containing <i>galaxy</i> galaxy, cluster - Finds titles with either <i>galaxy</i> OR <i>cluster</i> galaxy, +cluster - Finds titles with both <i>galaxy</i> AND <i>cluster</i> galaxy, -cluster - Finds titles with <i>galaxy</i> but NOT <i>cluster</i>
Publication Year(s)	<input type="text"/>	e.g. 2006 or 2006..2007
ADS Journal Abbreviation	<input type="text"/>	e.g. ApJ (See table)
HST programs	<input type="text"/>	e.g. 7387, 8216
Science or Instrument paper	<input checked="" type="checkbox"/> Science Paper <input checked="" type="checkbox"/> Instrument Paper	Both Science and Instrument papers are selected by default
Refereed or Not Refereed	<input checked="" type="checkbox"/> Refereed papers Only <input type="checkbox"/> Unrefereed Only	
GO or Archival	<input type="checkbox"/> GO <input type="checkbox"/> AR <input type="checkbox"/> Part GO; Part AR <input type="checkbox"/> Paper type unassigned	

Example: ESO



ESO Telescope Bibliography Query Form

[Libraries HOME](#) [Archive HOME](#) [ESO HOME](#) [search](#) [news](#)

Description



The Telescope Bibliography is maintained by the ESO library. It contains refereed publications directly using ESO data. For more detailed information, please contact esolib@eso.org.



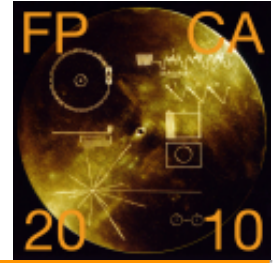
*The checkboxes in front of the parameters define whether or not they will be displayed on the query result page.
For more detailed information on how to use this interface, follow the hyperlinked search option labels.*

Observation Information

** Select matching Site--Telescope--Instrument or choose Any*

- [Site / Archive](#)..... :
 - * Pre-2002 La Silla archive papers cannot be combined with specific instruments*
- [Telescope\(s\)](#)..... :
 - * Paranal telescopes from 1999 onwards*
 - * La Silla telescopes from 1996 onwards*
- [Instrument\(s\)](#)..... :
 - * Paranal instruments from 1999 onwards*
 - * La Silla instruments from 2000 onwards*
- [Program ID\(s\)](#)..... :
 - * Paranal Program IDs from 1999 onwards*
 - * La Silla Program IDs from 2000 onwards*

Example: ESO



ESO Telescope Bibliography Query Results



[Libraries HOME](#) [Archive HOME](#) [ESO HOME](#) [search](#) [news](#)

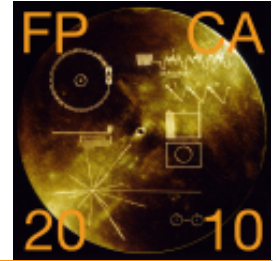
More [help](#) on display options.

Define new query

Programs used in papers

Paper ID	Author	Author(s)	Title	Journal	Vol.	Pages	Publ	Abstract	BibCode	Instrument(s)	
38798 (refereed)	Aharonian, F.	Aharonian, F.; Akhperjanian, A. G.; Barres de Almeida, U. et al.	HESS observations and VLT spectroscopy of PG 1553+113	A&A	477	481-489	2008	ADS	2008A&A...477..481A	SINFONI	276.B-5036
41929 (refereed)	Alvarez-Candal, A.	Alvarez-Candal, A.; Barucci, M. A.; Merlin, F. et al.	The trans-Neptunian object (42355) Typhon: composition and dynamical evolution	A&A	511	35-	2010	ADS	2010A&A...511A..35A	FORS2, ISAAC, SINFONI	178.C-0036

Example: ESO



ESO Observing Programmes

[Archive Facility HOME](#)

[ESO HOME](#)

[Form INFO](#)

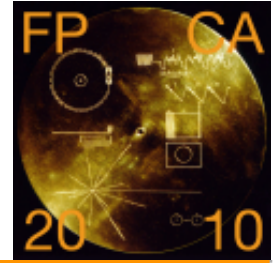
Define new query


Access to proposal information

Allocation	Period	Mode	Prog ID	Nights	Programme	Instrument	PI/CoI	Raw Products
276.B-5036(A), Service Mode, VLT-Yepun	77	Service	276.B-5036(A)	0 hrs	DDT	SINFONI	Boisson/ Benbow/ Costamante/ Dubus/ Giebels/ McComb/ Pita/ Punch/ Puehlhofer/ Sol/ Wagner/ Ward	FileList
276.B-5036(A), Service Mode, VLT-Yepun	76	Service	276.B-5036(A)	5 hrs	DDT	SINFONI	Boisson/ Benbow/ Costamante/ Dubus/ Giebels/ McComb/ Pita/ Punch/ Puehlhofer/ Sol/ Wagner/ Ward	FileList

A total of 2 were found matching the provided criteria

Example: ESO



 **ESO Observing Programmes**

[Archive Facility HOME](#) [ESO HOME](#) [Form INFO](#)

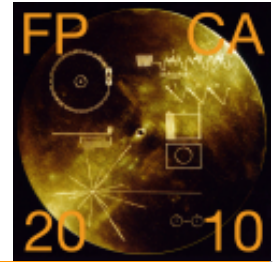
Define new query

276.B-5036(A), Service Mode, VLT-Yepun

Period	77	Mode	Service
Telescope	VLT-Yepun		
Nights	0 hrs		
Programme Type	DDT		
Instrument	SINFONI		
PI/CoI	Boisson/ Benbow/ Costamante/ Dubus/ Giebels/ McComb/ Pita/ Punch/ Puehlhofer/ Sol/ Wagner/ Ward		
Observer			
Remarks	<i>comment: carry-over DDT</i>		
Title	<i>Redshift of the high-frequency peaked TeV gamma-ray emitting blazar 1ES1553+113</i>		
Abstract	Abstract of proposal		
Raw Products	FileList		
Publications	PublicationList		

Request data

Other papers based on same program



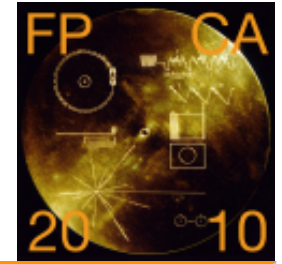
Linking publications and data (2)

At the ADS / Filters section

Select References In:

- All Groups
- At least one of the following groups (OR):
- All of the following groups (AND):

<input type="checkbox"/> ARI	<input type="checkbox"/> CfA	<input type="checkbox"/> CFHT	<input type="checkbox"/> Chandra
<input type="checkbox"/> ESO/Lib	<input type="checkbox"/> ESO/Telescopes	<input type="checkbox"/> GBT	<input type="checkbox"/> Gemini
<input checked="" type="checkbox"/> HST	<input type="checkbox"/> ISO	<input type="checkbox"/> IUE	<input type="checkbox"/> Keck
<input type="checkbox"/> Leiden	<input type="checkbox"/> LPI	<input type="checkbox"/> NCSA/ADIL	<input type="checkbox"/> NRAO
<input type="checkbox"/> ROSAT	<input type="checkbox"/> SDO	<input type="checkbox"/> SMA	<input type="checkbox"/> Spitzer
<input type="checkbox"/> Subaru	<input type="checkbox"/> USNO	<input type="checkbox"/> VSGC	<input type="checkbox"/> XMM



Linking publications and data (2)

Access through the ADS / Filters section

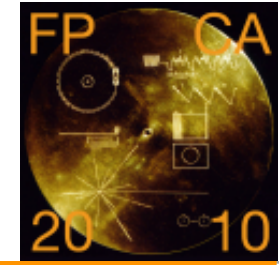
[SAO/NASA Astrophysics Data System \(ADS\)](#)

Query Results from the ADS Database

Selected and retrieved 62 abstracts.

#	Bibcode Authors	Score Title	Date	List of Links Access Control Help
1	<input type="checkbox"/> 2007AJ....134.2118F Ferrero, P.; Sanchez, S. F.; Kann, D. A.; Klose, S.; Greiner, J.; Gorosabel, J.; Hartmann, D. H.; Henden, A. A.; Møller, P.; Palazzi, E.; and 11 coauthors	1.000	12/2007	A E F X D R C S U
2	<input type="checkbox"/> 2007A&A...474..793G Guidorzi, C.; Vergani, S. D.; Sazonov, S.; Covino, S.; Malesani, D.; Molkov, S.; Palazzi, E.; Romano, P.; Campana, S.; Chincarini, G.; and 23 coauthors	1.000	11/2007	A E F X D R C S O U
3	<input type="checkbox"/> 2007A&A...469..503D Dolcini, A.; Farfanelli, F.; Ciprini, S.;	1.000	07/2007	A E F X D R C S O U

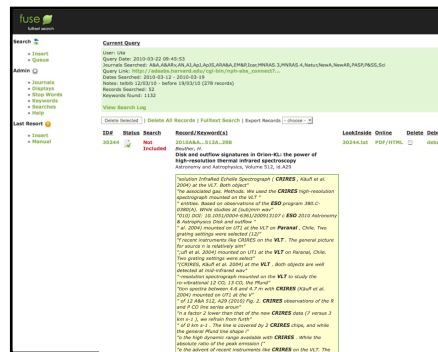
Prerequisites for telescope bibliographies



Access to literature

Semi-automated search tool

Policy / selection criteria



Data archive

Tags / keywords / programs

Database

ESO Archive Query Form

Target, Program and Scheduling Information

Observing Information

Data Product Info

Telescope Bibliography (tblbib) - Edit Paper

Tags

Programs

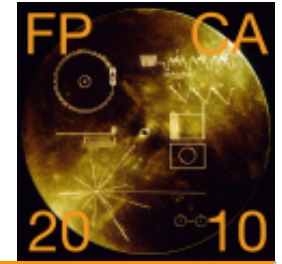
#	BibCode	Author	Title	Year	Citations
1	2010ApJ...709..512R	+ 2x Rettura, Alessandro	Formation Epochs, Star Fo...	2010	15
2	2010ApJ...711..311J	+ 2x Jankov, Julia	Sub-Solar Planet MDA-200...	2010	14
3	2010ApJ...708..503K	+ 2x Kovac, K.	The Density Field of the ...	2010	12
4	2010ApJ...709...97L	+ 2x Leshchinskiy, Alexei	A Weak Lensing Study of K...	2010	8
5	2010ApJ...708..131R	+ 2x Herten, A.	On the Cosmic Evolution ...	2010	7
6	2010AAS...512A.418	+ 2x Benisty, T.	Chemical evolution of the...	2010	6
7	2010AAS...509A.402	+ 2x Ivino, A.	The iCOSMOS redshift sur...	2010	5
8	2010AAS...509A.42V	+ 2x Vergani, D.	K+ α kinematics in the iCOSM...	2010	5
9	2010MNRAS...491.1657V	+ 2x Lemstra-Buisson, M.	2D kinematics and physics...	2010	4
10	2010AAS...509A.20K	+ 2x Rybs, N.	Chemical abundances of 11...	2010	4
11	2010MNRAS...492.2455	+ 2x Jovan, R. J.	BLAST: the far-infrared...	2010	4
12	2010ApJ...710.1641S	+ 2x Sun, T.	A Cool Neutron-Helix Plan...	2010	3
13	2010AAS...510A.158P	+ 2x Piatek, F.	VLT Spectroscopy of...	2010	3
14	2010AAS...509A.11M	+ 2x Martayan, C.	A kilosec spectroscopic ...	2010	2
15	2010AAS...510A.73P	+ 2x Federe, D.	Traces of mass accretio...	2010	2
16	2010MNRAS...492.724F	+ 2x Pridde, M. A.	The spectral energy dist...	2010	1
17	2010AAS...510A.31P	+ 2x Prato, V.	SCOSMOS-4891: a young me...	2010	1
18	2010AAS...510A.50S	+ 2x Smithson, B.	Bovislin abundance stud...	2010	1
19	2010MNRAS...492.1832C	+ 2x Elm, V. G.	A rival for ESO's first ...	2010	1

Prerequisites for telescope bibliographies



And staff !





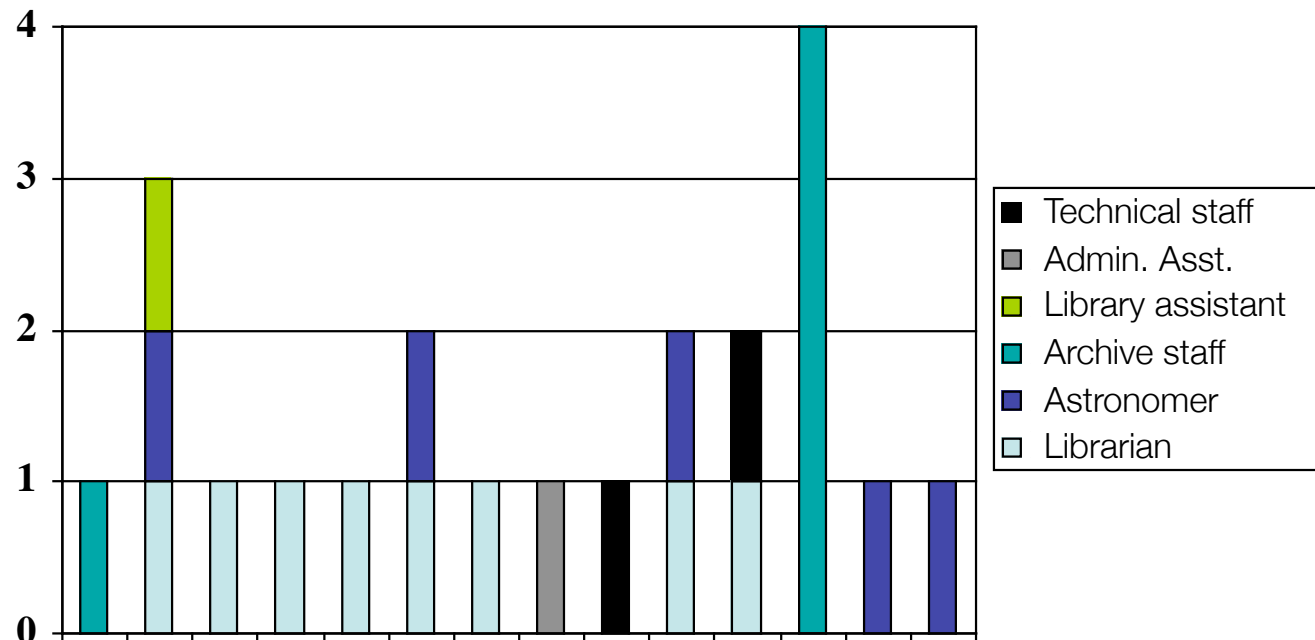
Who compiles telescope bibliographies?

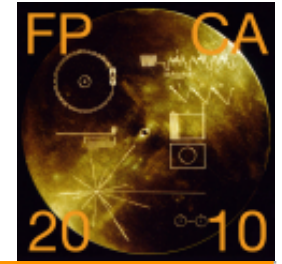
- 2010 Survey by J. Lagerstrom, STScI Library

Respondents:

CFHT, Chandra, FUSE/Galex/IUE, ESO, Gemini, HST, ING, Keck, NOAO, NRAO, SDSS, Spitzer, Subaru, XMM Newton

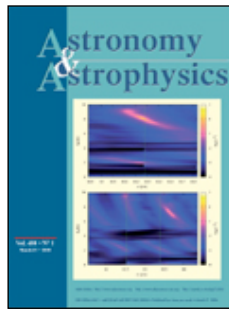
- Who does it? How many people are involved?



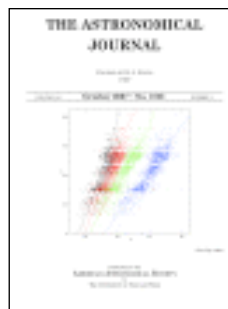


Which sources?

- 30+ journals listed, only 4 in common



A&A



AJ



ApJ / ApJS



MNRAS

- Print journals

E-journals (pdfs)

Journals' web sites

ADS abstracts

Self-reporting



Access to entire text of papers
(incl. footnotes, figures, captions etc.)

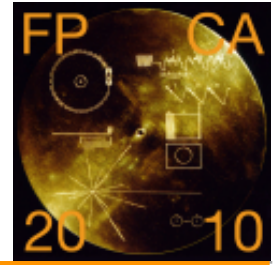
Entire article?

Only title, abstract, selected footnotes

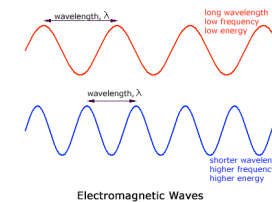
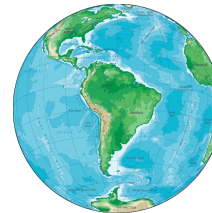
Rely on PIs / authors



Search strategies



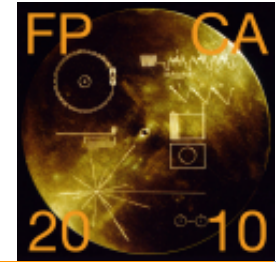
- Observatory, telescope, **instrument** names
- **Science programs**, surveys, archive names
- **Geographic** locations
- **Concepts**



• Challenges:

- ▶ papers: **missing references** to obs identifiers
- ▶ publisher **restrictions** for **downloading papers**
- ▶ central **full-text search feature at ADS?**





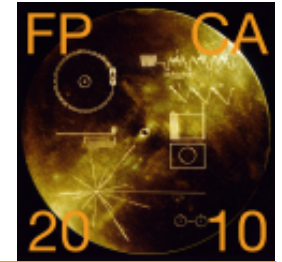
Tools of the trade

Full-text search tool (FUSE)

The screenshot shows the FUSE (Full-text search) interface. The top left has the 'fuse' logo and 'fulltext search' text. A left sidebar contains navigation links for Search, Admin, and Last Resort. The main area displays the 'Current Query' details, including user information, search date, journals searched, query link, dates searched, notes, records searched, and keywords found. Below this is a table of search results with columns for ID#, Status, Search, Record/Keyword(s), LookInside, Online, Delete, and Debug. The first result is for ID# 30244, which is 'Not Included'. The record title is '2010A&A...512A..29B' by Beuther, H., titled 'Disk and outflow signatures in Orion-KL: the power of high-resolution thermal infrared spectroscopy'. A text box on the right contains the abstract of this paper.

Users:
ESO, STScI, Gemini,
Subaru, Carnegie Obs.
coming soon: IUCAA

Abstract:
"solution InfraRed Echelle Spectrograph (**CRILES** , Käufel et al. 2004) at the VLT. Both object"
"he associated gas. Methods. We used the **CRILES** high-resolution spectrograph mounted on the VLT "
" entities. Based on observations of the **ESO** program 380.C-0380(A). While studies at (sub)mm wav"
"010) DOI: 10.1051/0004-6361/200913107 c **ESO** 2010 Astronomy & Astrophysics Disk and outflow "
" al. 2004) mounted on UT1 at the VLT on **Paranal** , Chile. Two grating settings were selected (12/"
"f recent instrume like **CRILES** on the **VLT** . The general picture for source n is relatively sim"
";ufl et al. 2004) mounted on UT1 at the **VLT** on Paranal, Chile. Two grating settings were select"
"(CRILES, Käufel et al. 2004) at the **VLT** . Both objects are well detected at mid-infrared wav"
"-resolution spectrograph mounted on the **VLT** to study the



Tools of the trade

ESO Telescope Bibliography (telbib)

The screenshot shows the telbib website interface. At the top is a green header with the 'telbib' logo. Below the header, there are several navigation and search sections:

- Configuration:** Includes a 'Main Menu' button and a list of links: Home, New ADS, New Record, Search & Modify, Edit Telescopes, and Check BibCodes.
- Fulltext Search:** A button for full-text search.
- Insert Records:** Includes 'Scan Records'.
- Statistics:** Includes 'h Index', 'Instrument Counts', and 'Top Tel/Ins Pairs'.

The main search area, titled 'Search telbib', contains the following fields and options:

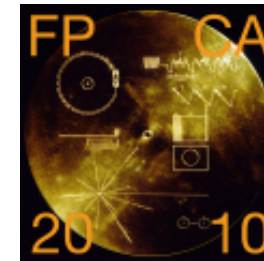
- BibCode:** [input field]
- PaperID:** [input field]
- 1st Author:** [input field]
- Affiliation:** [input field]
- Country:** [input field]
- ESOSite:** [-Choose- dropdown]
- Et al.:** [input field]
- Journal:** [input field]
- Volume:** [input field]
- Pages:** [input field]
- ESO Author:** [input field]
- (From) Pub Month/Year:** [input field] 2010
- (To) Pub Year:** [input field]
- Title:** [input field]
- Private Comment:** [input field]
- ESO Program:** [input field]
- Partner/Type:** [-] [dropdown]
- Public Comment:** [input field]
- Date Entered:** [dropdown] Since [Apr] [1] [2010] Before [Apr] [8] [2010]
- Refereed:** Yes No Both
- Mode:** Visitor Service Any
- Made Public:** Yes No Both
- Limit Number of Results:** [input field]
- Go** [button] **Reset** [button]

On the right side, there is a scrollable list of telescope names, with 'SINFONI' highlighted in blue:

- Paranal
- :VISTA
- :VLT
- ::CRIRES
- ::FLAMES-GIRAFFE
- ::FLAMES-UV
- ::FORS1
- ::FORS2
- ::HAWK-I
- ::ISAAC
- ::LaserGuideStarFacility
- ::MAD
- ::NACO
- ::SINFONI**
- ::SPIFFI
- ::ULTRACAM
- ::UVES
- ::VIMOS
- ::VISIR
- ::X-SHOOTER
- :VLT
- ::AMBER
- ::GENIE
- ::MIDI
- ::PRIMA
- ::VINCI
- :VST
- ::OmegaCam


At the bottom right, there are radio buttons for 'AND' and 'OR'.

At the bottom center, there is a 'powered by' logo with three small portraits.



Tools of the trade

ESO Telescope Bibliography (telbib)



Configuration

Search telbib

[New Search](#) [Edit Search](#) Update Citations Update PubDelay Export [Go](#)

#	BibCode	+ - 2x	Author	Title	Year	Citations
1	2010ApJ...709..512R	+ - 2x	Rettura, Alessandro	Formation Epochs, Star Fo...	2010	15
2	2010ApJ...711..731J	+ - 2x	Janczak, Julia	Sub-Saturn Planet MOA-200...	2010	14
3	2010ApJ...708..505K	+ - 2x	Kovac, K.	The Density Field of the ...	2010	12
4	2010ApJ...709...97L	+ - 2x	Leauthaud, Alexie	A Weak Lensing Study of X...	2010	8
5	2010ApJ...708..137M	+ - 2x	Merloni, A.	On the Cosmic Evolution o...	2010	7
6	2010A&A...512A..41B	+ - 2x	Bensby, T.	Chemical evolution of the...	2010	6
7	2010A&A...509A..40I	+ - 2x	Iovino, A.	The zCOSMOS redshift surv...	2010	5
8	2010A&A...509A..42V	+ - 2x	Vergani, D.	K+a galaxies in the zCOSM...	2010	5
9	2010MNRAS.401.1657L	+ - 2x	Lemoine-Busserolle, M.	2D kinematics and physica...	2010	4
10	2010A&A...509A..20R	+ - 2x	Ryde, N.	Chemical abundances of 11...	2010	4
11	2010MNRAS.402..245I	+ - 2x	Iverson, R. J.	BLAST: the far-infrared/r...	2010	4
12	2010ApJ...710.1641S	+ - 2x	Sumi, T.	A Cold Neptune-Mass Plane...	2010	3
13	2010A&A...510A.108P	+ - 2x	Patat, F.	VLT spectropolarimetry of...	2010	3
14	2010A&A...509A..11M	+ - 2x	Martayan, C.	A slitless spectroscopic ...	2010	2
15	2010A&A...510A..72F	+ - 2x	Fedele, D.	Timescale of mass accreti...	2010	2
16	2010MNRAS.402..724P	+ - 2x	Prieto, M. A.	The spectral energy distr...	2010	1
17	2010A&A...510A..31P	+ - 2x	Presotto, V.	SCG0018-4854: a young and...	2010	1
18	2010A&A...510A..50S	+ - 2x	Smiljanic, B.	Beryllium abundances along...	2010	1

Search Statistics:

Total Records: 53
Citations Total: 103
Average: 1.94
Max: 15
Min: 0
Median: 0
Std. Dev.: 3.53
H-Index: 6

* For H-Index, click on the Citations link.
* To see updated data after Update Citations, click on the Edit Search button and resubmit your search (to refresh).

Users:
ESO, NRAO

Citations

Bibliographic
details +
metadata
from ADS

Telescope Bibliography (telbib) :: Edit Paper

http://w4.hq.eso.org/intra/libraries/telbib/edit_paper.php?paperid=41920

Edit Paper

PaperID: 41920 BibCode: 2010A&A...512A..41B [View](#)

CitationCount: 6

Title:
Chemical evolution of the Galactic bulge as traced by microlensed dwarf and subgiant stars. II. Ages, metallicities, detailed elemental abundances, and connections to the Galactic thick disc

Public Comment:

Private Comment:
2009arXiv0911.5076B Info Thomas Bensby: based on {82.B-0453, 83.B-0265=UVES}

URL:
http://adsabs.harvard.edu/cgi-bin/nph-data_query?bibcode=2010A%26A...51

List of Instruments:

Instruments List

- Archive
 - :Archive_Only
 - :Archive_Plus_New
 - :Proc_Level: ADP
 - :Proc_Level: SGDP
 - :Proc_Level: raw
 - :Provenance: ESO
 - :Provenance: external
- Canarias - GTC
 - :CanariCam
 - :EMIR (withdrawn)
 - :OSIRIS
- Chajnantor
 - :ALMA
 - ::Band 10
 - ::Band 3
 - ::Band 4
 - ::Band 5
 - ::Band 6
 - ::Band 7

Instruments for 41920

- ::UVES
- Staff+Instr

Highlight & click edit button to add Highlight & click edit button to delete

Author affiliations

Author(s): ([Add/Edit/Delete](#))

1.) Bensby, T.; 2.) Feltzing, S.; 3.) Johnson, J. A.; 4.) Gould, A.; 5.) Adén, D.; 6.) Asplund, M.; 7.) Meléndez, J.; 8.) Gal-Yam, A.; 9.) Lucatello, S.; 10.) Sana, H.; 11.) Sumi, T.; 12.) Miyake, N.; 13.) Suzuki, D.; 14.) Han, C.; 15.) Bond, I.; 16.) Udalski, A.;

First Author:
Bensby, T.

Journal:
A&A

Volume:
512

Page:
41-

Month/Year:
3 2010 **PubMonth**

ESO Key :
BENS

Refereed Made Public

List of Programs

ID	Mode	Part	Type	Del	PubMon
082.B-0453	sm		ToO	<input type="checkbox"/>	0 Mon.
083.B-0265	sm		ToO	<input type="checkbox"/>	0 Mon.

↑ proIDs ↑ ObsMode ↑ ObsType

Data Management:

ADSQueryOK: Yes
EntryDate: Mar 31 2010 3:59PM
ModifiedDate: Mar 31 2010 4:05PM
ADSQueryDate: Mar 31 2010 3:59PM
MadePublicDate: Mar 31 2010 4:05PM

Done zotero

Statistics / reports



- **Basic ESO Statistics**

<http://www.eso.org/libraries/>

- ▶ Publication + citation statistics
- ▶ ESO and other observatories
- ▶ ESO Top 20
- ▶ Instruments' pub stats
- ▶ Further reading


- regularly **updated**
- other reports **on demand**

FPCA-II, Cambridge, MA, April 2010

ESO publication statistics

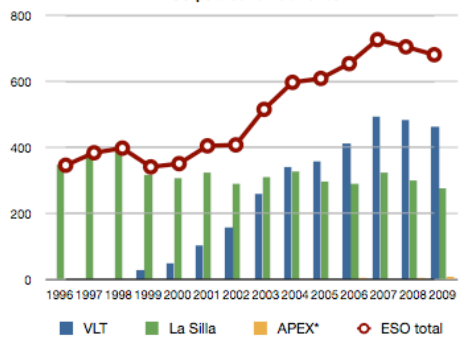
(version March 2010, contact: Uta Grothkopf, ESO Library, library@eso.org)

ESO publication statistics are derived from the Telescope Bibliography (telbib), a database of refereed articles that directly use ESO data. Telbib is maintained by the ESO library. Here, we provide some basic statistics to give an overview of publications and citations for the publication years 1996-2009. For more detailed information, please use telbib's public interface (www.eso.org/libraries/telbib.html) or consult the librarians at library@eso.org



provided by
ESO Library

ESO publication statistics



Legend: VLT (blue), La Silla (green), APEX* (orange), ESO total (red line with circles)

Publications by observing site

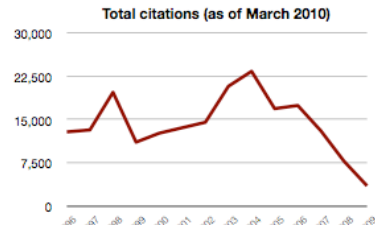
	VLT	La Silla	APEX*	ESO total
1996		348		348
1997		386		386
1998		400		400
1999	29	319		343
2000	52	310		353
2001	105	324		407
2002	159	290		410
2003	260	312		518
2004	341	329		600
2005	360	298		612
2006	412	292	6	657
2007	494	327	1	730
2008	484	302	7	708
2009	466	277	11	684

* APEX: includes only papers that use ESO data

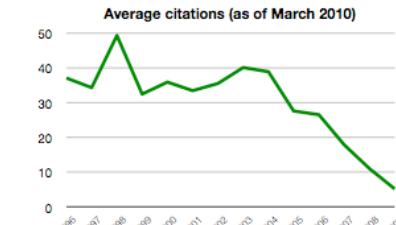
Total and average citations

	Pubs	Cites	Average
1996	348	12,960	37.2
1997	386	13,301	34.5
1998	400	19,798	49.5
1999	343	11,185	32.6
2000	353	12,732	36.1
2001	407	13,678	33.6
2002	410	14,621	35.7
2003	518	20,852	40.3
2004	600	23,432	39.1
2005	612	16,980	27.7
2006	657	17,525	26.7
2007	730	13,150	18.0
2008	708	7,905	11.2
2009	684	3,636	5.3

Total citations (as of March 2010)



Average citations (as of March 2010)



In bibliometric studies, numbers of publications show the observatory's *productivity*, citations the *impact* papers have made among the community.

Since it takes time to gather citations, older papers typically have higher citation numbers than recent ones.

While it is tempting to use publication and citation statistics for comparisons, this has to be done with **utmost care** as the numbers may have been obtained with different methodologies.

What's next?

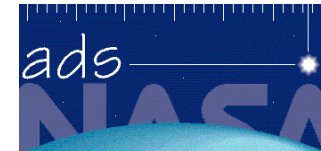


- Citations are problematic

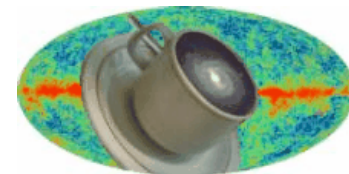
- ▶ **Incompleteness**: listings often incomplete
- ▶ **Incorrectness**: incorrect citing, multiple journal abbreviations
- ▶ **Citing behavior**: cite well-known authors, friends citing friends
- ▶ **Multi-author papers**: self-cites (introduce normalized citation counts?)

- Tracing usage and popularity

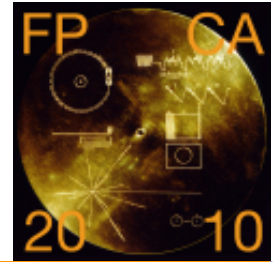
- ▶ **Reads** (ADS)
- ▶ **Downloads** (arXiv, Citebase)
- ▶ **Forum discussions** (e.g., CosmoCoffee)



citebase **Search**



Citations vs. Reads



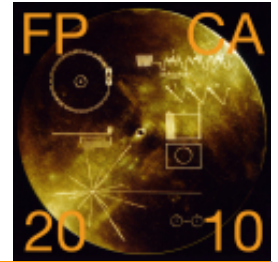
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- [Citations to the Article \(170\)](#) (Citation History)
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Title: The morphological identification of the rapidly evolving population of faint galaxies
Authors: [Glazebrook, Karl](#); [Ellis, Richard](#); [Santiago, Basilio](#); [Griffiths, Richard](#)
Affiliation: AA(Institute of Astronomy, Madingley Road, Cambridge CB3 0HA, UK), AB(Institute of Astronomy, Madingley Road, Cambridge CB3 0HA, UK), AC(Institute of Astronomy, Madingley Road, Cambridge CB3 0HA, UK), AD(Department of Physics and Astronomy, Johns Hopkins University, 3400 North Charles St, Baltimore, MD 21218, USA)
Publication: Monthly Notices of the Royal Astronomical Society, Volume 275, Issue 2, pp. L19-L22.
Publication Date: 07/1995
Origin: [MNRAS](#); KNUDSEN
MNRAS Keywords: SURVEYS, GALAXIES: EVOLUTION, GALAXIES: STRUCTURE, GALAXIES: Faint
Abstract Copyright: (c) 1995 The Royal Astronomical Society
Bibliographic Code: 1995MNRAS.275L..19G

Abstract

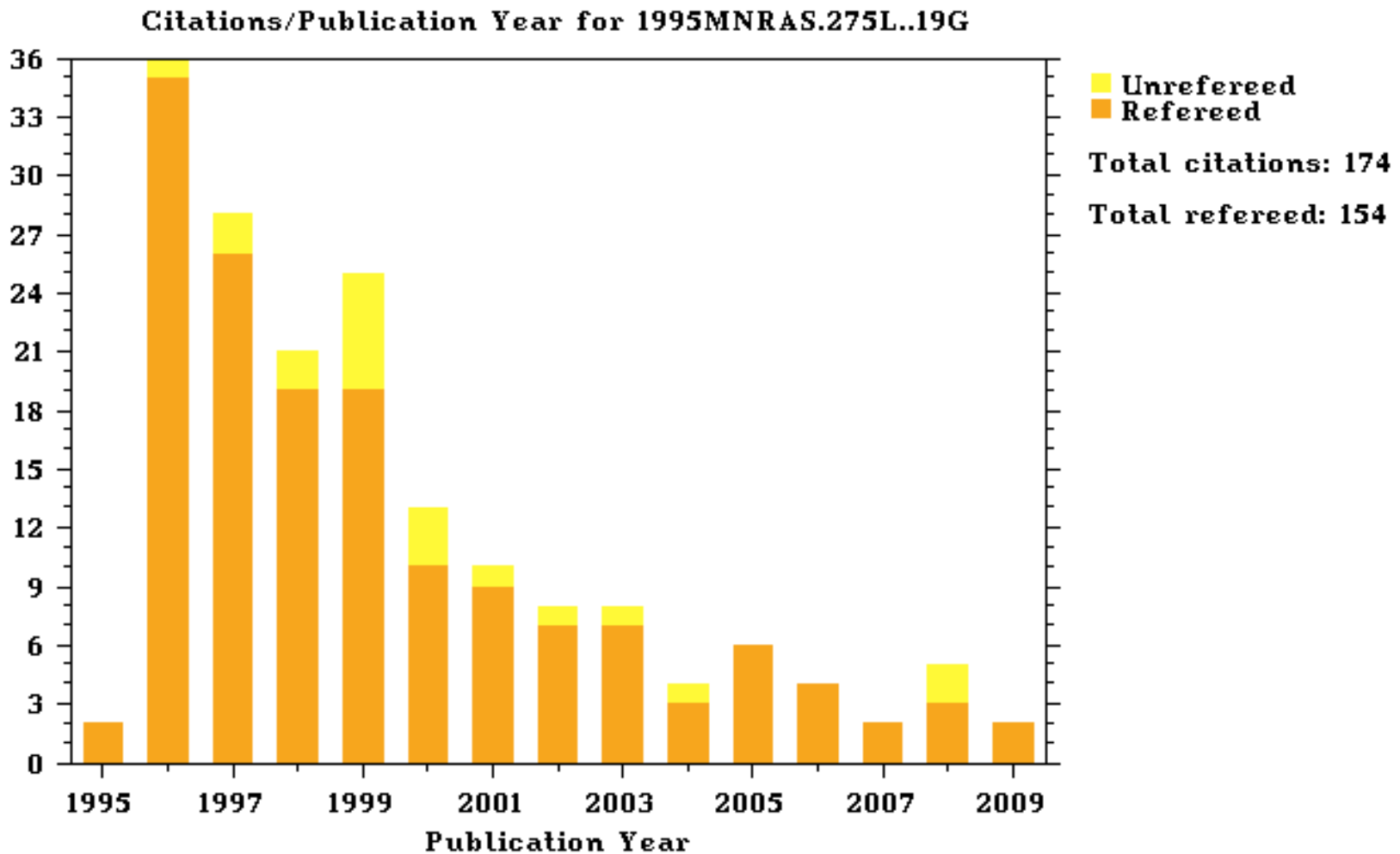
The excess numbers of blue galaxies at faint magnitudes are a long-standing cosmological puzzle. We present new morphology from the first deep fields of the Cycle 4 Hubble Space Telescope Medium Deep Survey project. From spiral and irregular/peculiar galaxies to I=22. We find two principal results. First, the elliptical and spiral galaxy co

Citations vs. Reads

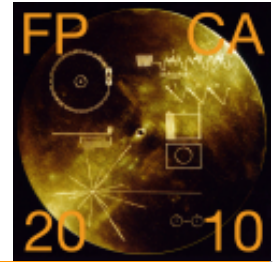


Citations history for [1995MNRAS.275L..19G](#) from the ADS Databases

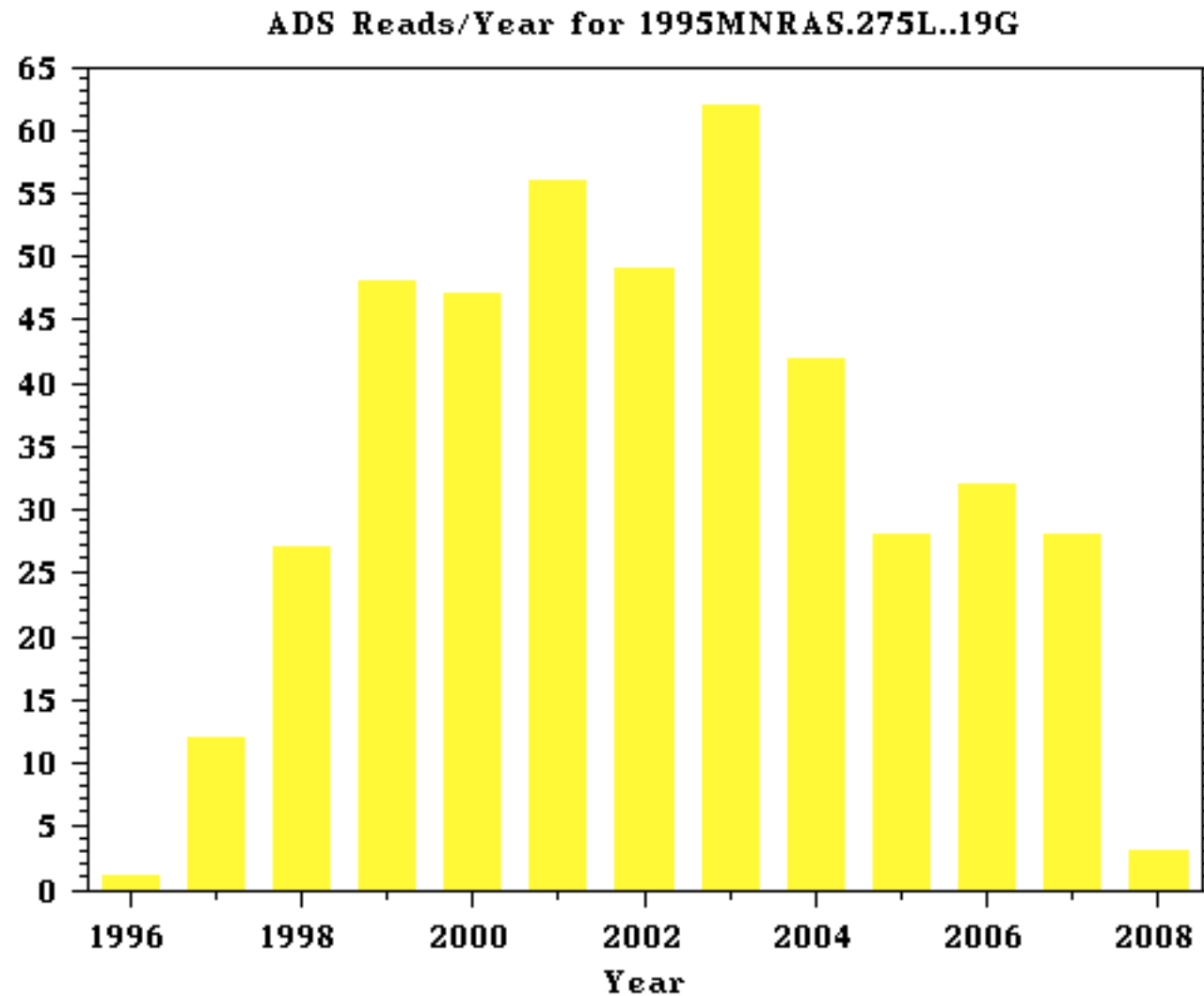
The Citation database in the ADS is **NOT** complete. Please keep this in mind when using the [ADS Citation lists](#).



Citations vs. Reads

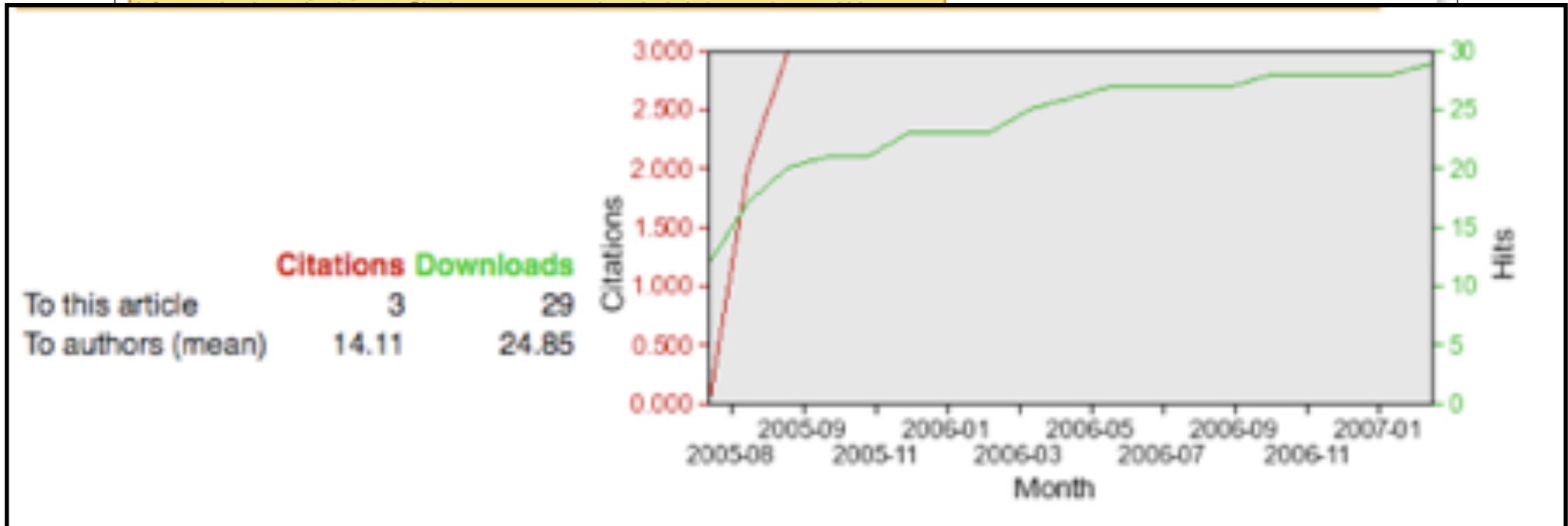
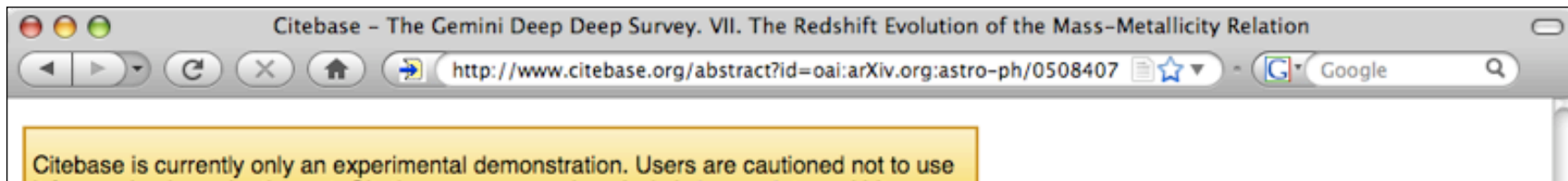
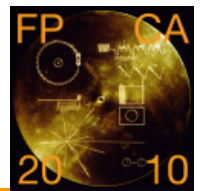


Reads history for [1995MNRAS.275L..19G](#) from the ADS Databases



Total reads: 435

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article (to see all citing articles identified by Citebase follow the bottom link)

[The Mass-Metallicity Relation at \$z \sim 2\$](#) [[Abstract](#), [15 Cites](#), [Pre-print PDF](#)]

15 Erb, Dawn K.; Shapley, Alice E.; Pettini, Max et al (2006-02-21) oai:arXiv.org:astro-ph/0602473

We use a sample of 87 rest-frame UV-selected star-forming galaxies with mean spectroscopic redshift $z=2.26$ to study the correlation between metallicity and stellar mass at high redshift. Using stellar masses determined from SED fitting to 0.3-8 micron photometry, we divide the sample into six bins in ... Comment: 18 pages, 9 figures, 2 tables; accepted for publication in ApJ

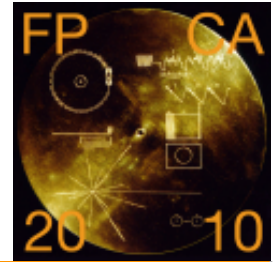
[Velocity-Metallicity Correlation for high- \$z\$ DLA Galaxies: Evidence for a Mass-Metallicity Relation?](#) [

[Abstract](#), [12 Cites](#), [Pre-print PDF](#)]

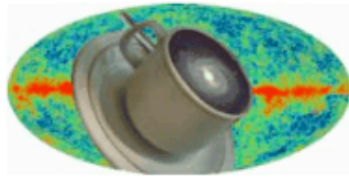
12 Ledoux, C.; Petitjean, P.; Fynbo, J. P. U. et al (2006-06-08) In *ASTRON.ASTROPHYS.* 457 71 (2006)

We used our database of VLT-UVES quasar spectra to build up a sample of 70 Damped Lyman-alpha (DLA) or strong sub-DLA systems with total neutral hydrogen column densities of $\log N(\text{HI}) > 20$ and redshifts in the range

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arXiv papers

Moderators: None

Users browsing this forum: None

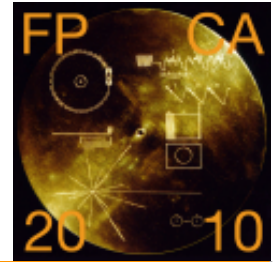
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Topics	Posts	Views	Last Post
Sticky: Posting guidelines	0	3515	September 24 2004 CoffeePot →
[1003.1073] The origin of the WMAP quadrupole [Goto page: 1, 2]	23	1952	April 07 2010 Tom Crawford →
[1004.0221] High resolution spectroscopy of the three dimensional cosmic web with close QSO groups	0	66	April 06 2010 Anze Slosar →
[1003.4531] Manifestly Covariant Gauge-invariant Cosmological Perturbation Theory	3	307	April 01 2010 Pieter Miedema →
[1003.3999] Cosmological parameters from large scale structure - geometric versus shape information	4	196	April 01 2010 Syksy Rasanen →
[1001.0785] On the Origin of Gravity and the Laws of Newton	2	306	March 30 2010 Shaun Thomas →
[1003.4282] Modelling redshift space distortions in hierarchical cosmologies	1	188	March 26 2010 Elise Jennings →
[1003.3451] Primordial Non-Gaussianity and the NRAO VLA Sky Survey	5	428	March 25 2010 Patrick McDonald →
[1002.3966] Why all these prejudices against a constant?	6	826	March 16 2010 Willard Mittelman →
[1003.0879] The Data Big Bang and the Expanding Digital Universe: High-Dimensional, Complex and Massive Data Sets in an Inflationary Epoch	0	157	March 16 2010 Molly Swanson →
[0907.2731] Improved CMB Map from WMAP Data	2	1745	March 16 2010 Boud Boukema →

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Arxiv New Filter | Bookmarks & clubs | Arxiv ref/author:

[1003.1073] The origin of the WMAP quadrupole

Goto page 1, 2 [Next](#)

Authors: Hao Liu, Ti-Pei Li

Abstract: The cosmic microwave background (CMB) temperature maps from the Wilkinson Microwave Anisotropy Probe (WMAP) are of great importance for cosmology. After finding out significant systematics in official WMAP maps, we had developed our own map-making software independently of the WMAP team. The new maps produced from the WMAP raw data and our software are notably different to the official ones, and the power spectrum as well as the best-fit cosmological parameters are significantly different too. By revealing the inconsistency between the WMAP raw data and their official map, we pointed out that there must exist an unexpected problem in the WMAP map-making routine. Here we state that the trouble comes from the inaccuracy of antenna pointing direction caused by improper offset of the quaternion interpolation in the WMAP routine. The CMB quadrupole in the WMAP release can be generated from a differential dipole field which is completely determined by the spacecraft velocity and the antenna directions without using any CMB signal. After correcting the WMAP team's error, the CMB quadrupole component disappears. Therefore, the released WMAP CMB quadrupole is almost completely artificial and the real quadrupole of the CMB anisotropy should be near zero. Our finding is important for understanding the early universe.

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Author	Message
Douglas Applegate Joined: 19 Oct 2007 Posts: 8 Affiliation: Kavli Institute for Particle Astrophysics & Cosmology (KIPAC)	<p>Posted: March 07 2010 quote</p> <p>These authors have been quite busy reprocessing the WMAP data. I noticed that some of their last papers have also been posted on Cosmo Coffee for comment.</p> <p>In this paper, the authors hit on a small, but they say crucial, difference between the official analysis and their analysis. Basically, the telescope pointing is off by half a pixel (interesting amount), and thus the quadrupole is mis-measured.</p> <p>Putting aside the hard question of correctness, is it plausible that an incorrect model for the telescope pointing would result in a mis-measured quadrupole?</p> <p>Back to top profile email</p>
Boud Roukema Joined: 24 Feb 2005 Posts: 66 Affiliation: Torun Centre for Astronomy, University of Nicolaus Copernicus	<p>Posted: March 09 2010 quote</p> <p>Douglas Applegate wrote:</p> <p>... is it plausible that an incorrect model for the telescope pointing would result in a mis-measured quadrupole?</p> <p>Bennett et al 2003 arXiv:astro-ph/0302207 give 3.3mK for the dipole.</p> <p>$\sin(7^\circ) * 3.3mK = 0.002 * 3.3mK = 6.7\mu K$</p>

Ongoing projects



- Further metadata from the ADS:
 - ▶ **Subject terms / keywords**
 - ▶ Full info re. **citations (to eliminate self-cites)**
 - ▶ All available **links** (DOI, ePrintID etc.)
 - ▶ **Author gender** (in collaboration with AuthorID projects?)

- Additional internal links:
 - ▶ Authors' **acknowledgments of observing time**
 - ▶ Fully link telbib records and **ESO Press Releases**
 - ▶ Gather information on **publication delay**



Thank you