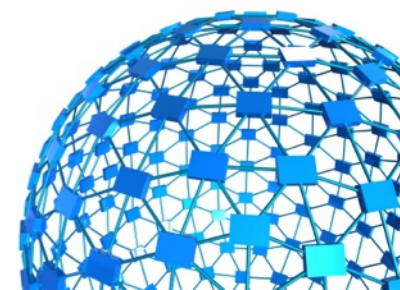




ESO telbib: an interconnected database

Uta Grothkopf & Silvia Meakins
ESO Library
library@eso.org

LISA VII, Naples 17-20 June 2014





ESO Telescope Bibliography (telbib)

▶ What?

- Database of **refereed papers** that **use ESO data**

▶ Why?

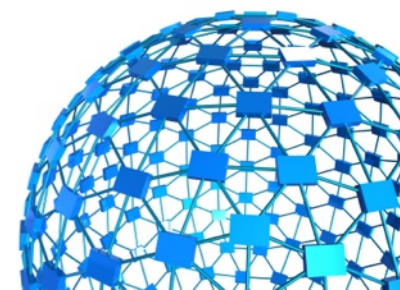
- **link** resources (science papers -> data / obs. proposals -> papers)
- measure ESO's **scientific output** (productivity + impact)
- **evaluate performance** of telescopes + instruments
- put **ESO in context** w/ other observatories
- define guidelines for **future facilities**

▶ Who is interested?

- Project scientists, ESO Management & Council, astronomy community

▶ “Interconnected”?

- **multi-faceted, interlinked resource** with diverse content
- **enhanced user experience** and **ease of access** to further resources



The telbib network - Overview



The telbib network - Overview



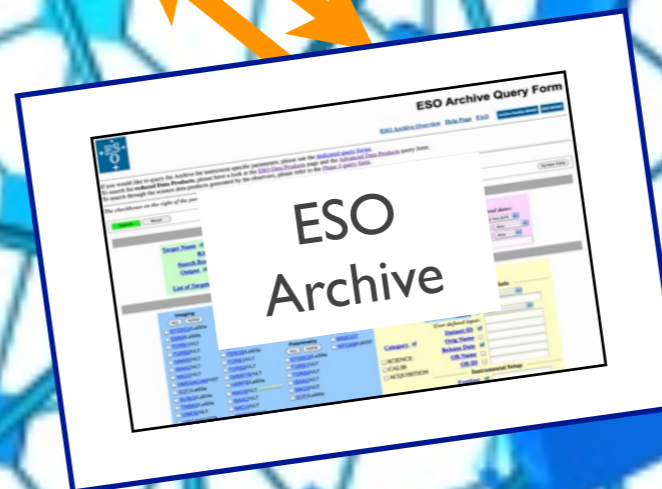
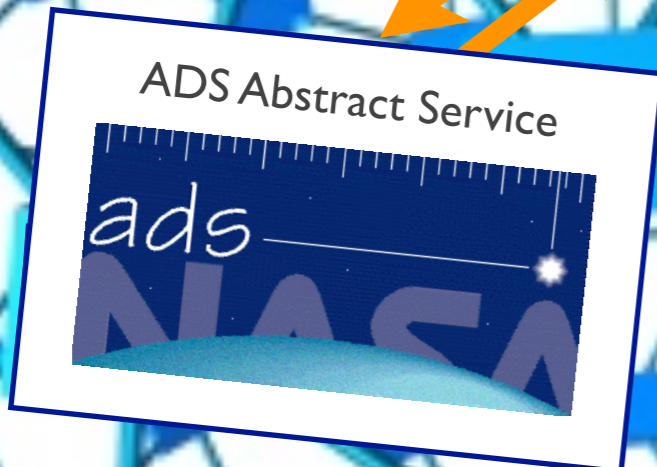
The telbib network - Overview



The telbib network - Overview



API



What's next?

The telbib network - Overview



The telbib network - Overview



The telbib network - Overview



The telbib network - Overview



Linking in

Populating the telbib database



telbib backend

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Title:

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e.g. Affil corrected manually. | HARPS ADP/ESO as disc. w/ Jeremy Walsh 31/3/11 | N. Delmotte: UVES POP (266.D-5655) not ADP nor Archive [unless retrieved from Arc] 24/8/07

[+] Abstract, Keywords, Public Comment, URL

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 Refereed
 Made Public

Shadow

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Location:

Facilities:

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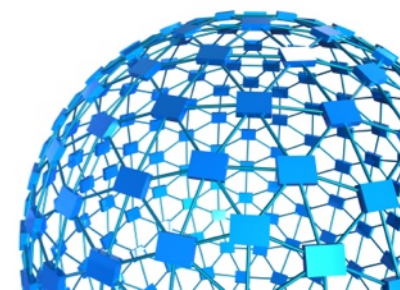
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 Made Public
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telescopes, instruments, program info

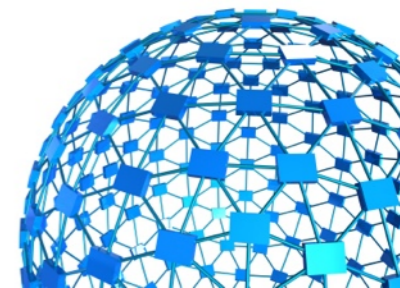


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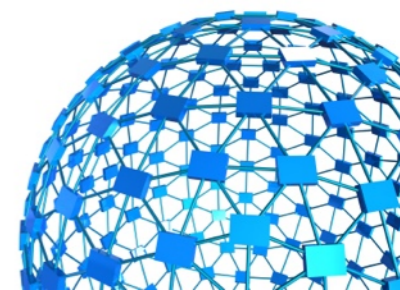
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Bib info + metadata via XML interface:

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- ▶ journal, vol., pages
- ▶ abstract, keywords
- ▶ citations, 'reads'

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  of Chicago, 5640 South Ellis Avenue, Chicago, IL 60637, USA), AG(Europe
  Germany), AH(Harvard-Smithsonian Center for Astrophysics, 60 Garden Stre
  Garden Street, Cambridge, MA 02138, USA; Department of Physics, Harvard U
  Cosmological Physics, University of Chicago, 5640 South Ellis Avenue, Chicag
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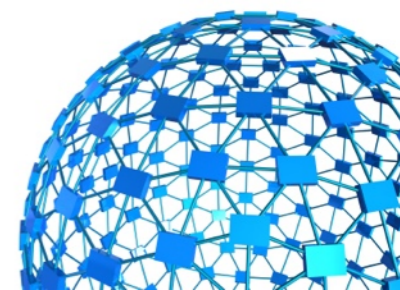
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First Author:

ESO Key :

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 Refereed
 Made Public
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authors
incl. affiliations



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incl. affiliations

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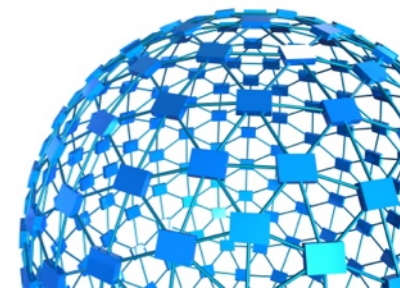
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- Refereed
- Made Public

- Shadow



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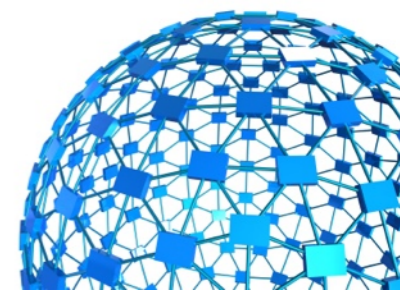
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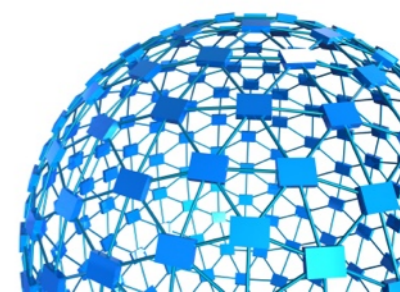
ESO authors

DE B

Staff
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ESO Archive / Obs Schedule → telbib



ESO Archive / Obs Schedule → telbib

Populating telbib with program and instrument info



ESO Archive / Obs Schedule → telbib

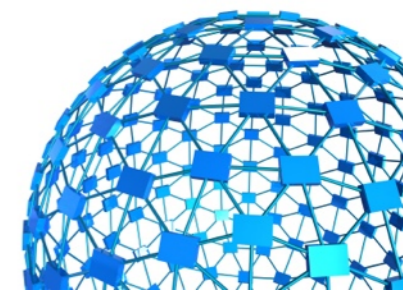
Populating telbib with program and instrument info

1 Observing schedule

- ▶ direct access to program db via AJAX request
- ▶ for La Silla/Paranal, APEX, and ALMA observations

List of Programs

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ESO Archive / Obs Schedule → telbib

Populating telbib with program and instrument info

1 Observing schedule

- ▶ direct access to program db via AJAX request
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2 Archive search

PI/Cols, instruments, obs dates, objects, etc.

The screenshot shows the ESO Archive Query Form interface. At the top, there is the ESO logo and the title "ESO Archive Query Form". Below the title are links for "ESO Archive Overview", "Help Page", "FAQ", "Archive Facility HOME", and "ESO HOME". A note states: "If you would like to query the Archive for instrument specific parameters, please use the dedicated query forms. To search for reduced Data Products, please have a look at the ESO Data Products page and the Advanced Data Products query form. To search through the science data products generated by the observers, please refer to the Phase 3 query form." Below this note is a line of text: "The checkboxes on the right of the parameters define whether or not they will be displayed on the query result page." The form itself has a search bar with a "Search" button and a "Reset" button. It also includes "Output preferences" set to "html table", "Return max" set to "200" rows, and "All Fields" selected. The form is divided into two main sections: "Target, Program and Scheduling Information" and "Observing Information". The "Target, Program and Scheduling Information" section includes fields for "Target Name" (checked), "Resolved by SIMBAD" (dropdown), "Night" (checkbox), "RA" (input), "DEC" (input), "J2000" (checkbox), "Search Box" (input), "Input" (dropdown), "Output" (checkbox), "List of Targets" (button), "Start" (input), "End" (input), "Program ID" (checkbox), "Program Type" (checkbox), "PI Col" (checkbox), "SY" (checkbox), and "Title" (checkbox). The "Observing Information" section includes a grid of checkboxes for "Imaging", "Spectroscopy", "Interferometry", and "Other" instruments, and a "Data Product Info" section with checkboxes for "Type", "Mode", "Dataset ID", "Orig Name", "Release Date", "OB Name", "OB ID", and "Exptime".



ESO Archive / Obs Schedule → telbib

Populating telbib with program and instrument info

1 Observing schedule

- ▶ direct access to program db via AJAX request
- ▶ for La Silla/Paranal, APEX, and ALMA observations

List of Programs

ID	Mode	Part	Type	Instrument
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2 Archive search

PI/Cols, instruments, obs dates, objects, etc.

ESO Archive Query Form

ESO Archive Overview Help Page FAQ Archive Facility HOME ESO HOME

If you would like to query the Archive for instrument specific parameters, please use the [dedicated query forms](#).
To search for **reduced Data Products**, please have a look at the [ESO Data Products](#) page and the [Advanced Data Products](#) query form.
To search through the science data products generated by the observers, please refer to the [Phase 3 query form](#).

The checkboxes on the right of the parameters define whether or not they will be displayed on the query result page.

Search Reset Output preferences: html table Return max 200 rows. All Fields Syntax Help

Target, Program and Scheduling Information

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Night (YYYY MM(M) DD)
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Observing Information

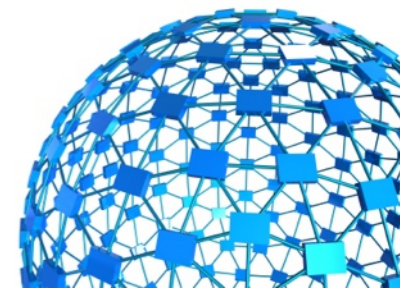
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Spectroscopy ALL NONE
Interferometry ALL NONE
Other ALL NONE

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EMMI/LaSilla CRRES/VLT MIDI/VLT HET/APEX
FORS1/VLT EFOSC2/LaSilla VINCI/VLT LGSE
FORS2/VLT EMMI/LaSilla POLARIMETRY
HAWK/VLT FEROS/LaSilla ALL NONE MASCOT
ISAAC/VLT FORS1/VLT WFCAM/UKIRT
NACQ/VLT FORS2/VLT EFOSC2/LaSilla
OMEGACAM/VST GIRAFFE/VLT FORS1/VLT
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- ▶ Contact ESO instrument scientists
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[\[+\] Abstract, Keywords, Public Comment, URL](#)

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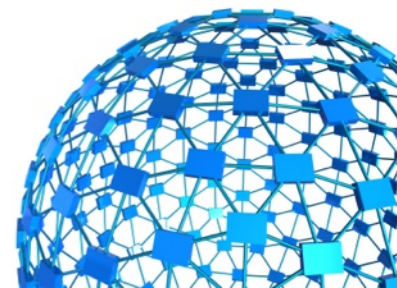
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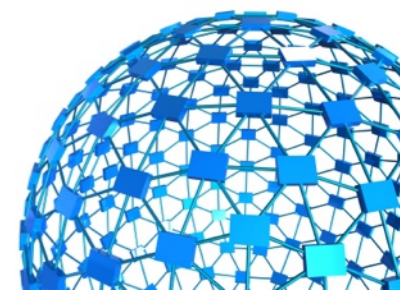
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Private Comment:

Author(s): (Add/Edit/List/Delete)

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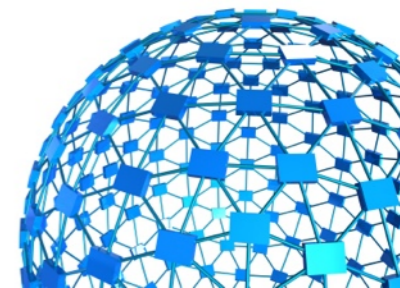
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 1.) Weiß, A.; 2.) **De Breuck, C.**; 3.) Marrone, D. P.; 4.) Vieira, J. D.; 5.) Aguirre, J. E.; 6.) Aird, K. A.; 7.) **Aravena, M.**; 8.) Ashby, M. L. N.; 9.) Bayliss, M.; 10.) Benson, B. A.; 11.) Béthermin, M.; 12.) **Biggs, A. D.**; 13.) Bleem, L. E.; 14.) Bock, J. J.; 15.) Bothwell, M.; 16.) Bradford, C. M.; 17.) Brodwin, M.; 18.) Carlstrom, J. E.; 19.) Chang, C. L.; 20.) Chapman, S. C.; 21.) Crawford, T. M.; 22.) Crites, A. T.; 23.) de Haan, T.; 24.) Dobbs, M. A.; 25.) Downes, T. P.; 26.) Fassnacht, C. D.; 27.) George, E. M.; 28.) Gladders, M. D.; 29.) Gonzalez, A. H.; 30.) Greve, T. R.; 31.) Halverson, N. W.; 32.) Hezaveh, Y. D.; 33.) High, F. W.; 34.) Holder, G. P.; 35.) Holzapfel, W. L.; 36.) Hoover, S.; 37.) Hrubes, J. D.; 38.) Husband, K.; 39.) Keisler, R.; 40.) Lee, A. T.; 41.) Leitch, E. M.; 42.) Lueker, M.; 43.) Luong-Van, D.; 44.) Malkan, M.; 45.) McIntyre, V.; 46.) McMahon, J. J.; 47.) Mehl, J.; 48.) Menten, K. M.; 49.) Meyer, S. S.; 50.) Murphy, E. J.; 51.) Padin, S.; 52.) Plagge, T.; 53.) Reichardt, C. L.; 54.) Rest, A.; 55.) Rosenman, M.; 56.) Ruel, J.; 57.) Ruhl, J. E.; 58.) Schaffer, K. K.; 59.) Shirokoff, E.; 60.) Spilker, J. S.; 61.) Stalder, B.; 62.) Staniszewski, Z.; 63.) Stark, A. A.; 64.) Story, K.; 65.) Vanderlinde, K.; 66.) Welikala, N.; 67.) Williamson, R.;

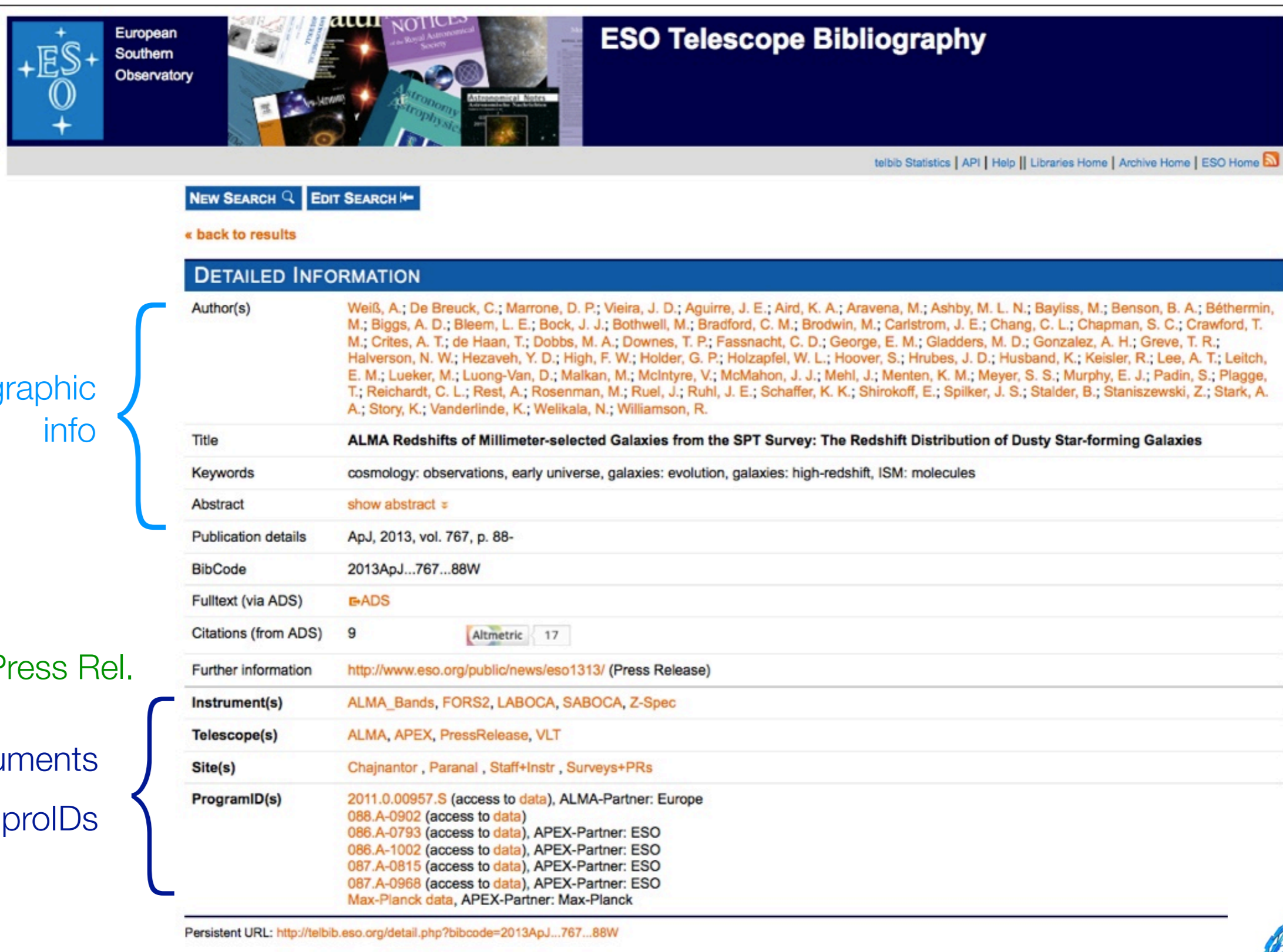
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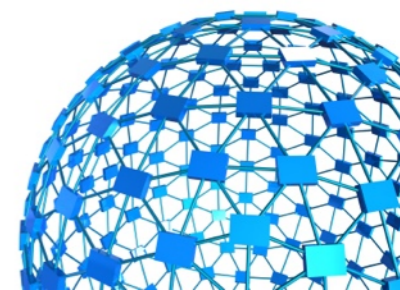
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- Title:** ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies
- Keywords:** cosmology: observations, early universe, galaxies: evolution, galaxies: high-redshift, ISM: molecules
- Abstract:** show abstract
- Publication details:** ApJ, 2013, vol. 767, p. 88-
- BibCode:** 2013ApJ...767...88W
- Fulltext (via ADS):** ADS
- Citations (from ADS):** 9 (with an Altmetric badge showing 17)
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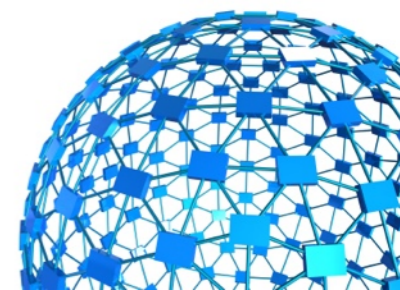
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Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, ZEMUS
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor , Paranal , Staff+Instr , Surveys+PR
ProgramID(s)	2011.0.00957.S (access to data), ALMA-Partner: Europe 088.A-0902 (access to data) 086.A-0793 (access to data), APEX-Partner: ESO 086.A-1002 (access to data), APEX-Partner: ESO 087.A-0815 (access to data), APEX-Partner: ESO 087.A-0968 (access to data), APEX-Partner: ESO Max-Planck data, APEX-Partner: Max-Planck

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ESO Archive Query Form

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RA
Search Box
Output
List of Targets

end dates:
2 hrs (UT)
Any
Any

Imaging ALL NONE
 EFOSC2/LaSilla
 EMM/LaSilla
 FORS1/VLT
 FORS2/VLT
 HAWK/VLT
 ISAAC/VLT
 NACO/VLT
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 SUSI2/LaSilla
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 WIRC/MAMBA

Polarimetry ALL NONE
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 FORS1/VLT
 FORS2/VLT
 HARPS/LaSilla
 KMOS/VLT
 ISAAC/VLT
 NACO/VLT
 SOFI/LaSilla

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Mode Any
 User defined input:
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 Orig Name
 Release Date
 OB Name
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ESO Archive / Observation Schedule

access to data

Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013ApJ...767...88W>



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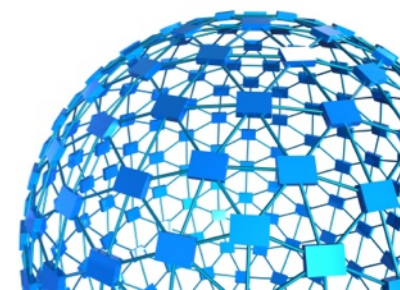
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088.A-0902(D), Service Mode, UT1-Antu

Period	88
Mode	Service
Telescope	UT1-Antu
Allocated time	24 h
Programme Type	Normal
Instrument	FORS2
PI/CoI	CHAPMAN/ VIEIRA/ MARRONE/ DEBREUCK/ WEISS/ CARLSTROM/ HUSBAND/ ALAGHBAND-ZADEH/ STROM/ GREVE/ FASSNACHT/ GLADDERS
Observer	
Remarks	
Title	<i>Revealing the nature of the most luminous high-z dusty star-forming galaxies</i>
Abstract	Abstract of proposal
Raw Products	FileList
Publications	PublicationList [3]



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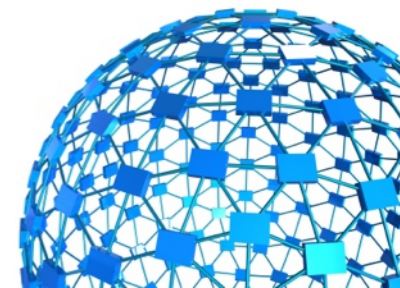
proID

088.A-0902(D), Service Mode, UT1-Antu


Period	88
Mode	Service
Telescope	UT1-Antu
Allocated time	24 h
Programme Type	Normal
Instrument	FORS2
PI/CoI	CHAPMAN/ VIEIRA/ MARRONE/ DEBREUCK/ WEISS/ CARLSTROM/ HUSBAND/ ALAGHBAND-ZADEH/ STROM/ GREVE/ FASSNACHT/ GLADDERS
Observer	
Remarks	
Title	<i>Revealing the nature of the most luminous high-z dusty star-forming galaxies</i>
Abstract	Abstract of proposal
Raw Products	FileList
Publications	PublicationList [3]

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088.A-0902(D), Serv

Period	88
Mode	Service
Telescope	UT1-Antu
Allocated time	24 h
Programme Type	Normal
Instrument	FORS2
PI/CoI	CHAPMAN/ STROM/ GR
Observer	
Remarks	
Title	Revealing the
Abstract	Abstract of p
Raw Products	FileList
Publications	PublicationList [3]

ESO Observation Schedule

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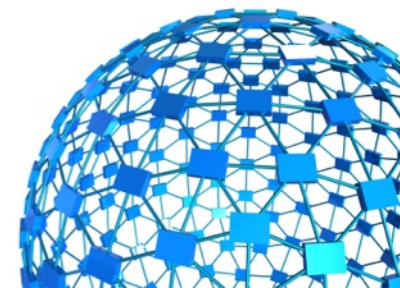
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Results 1 - 3 of 3 found for programid:088.A-0902

YEAR	AUTHOR	TITLE	INSTRUMENTS	ACCESS TO DATA	FULLTEXT ADS
2013	Vieira, J. D. et al.	Dusty starburst galaxies in the early Universe as revealed by gravitational lensing	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec	086.A-0793, 086.A-1002, 087.A-0815, 087.A-0968, 088.A-0902, 2011.0.00957.S, 2011.0.00958.S, Max-Planck data	2013Natur.495..344V
2013	Hezaveh, Y. D. et al.	ALMA Observations of SPT-discovered, Strongly Lensed, Dusty, Star-forming Galaxies	ALMA_Bands, FORS2, ISAAC, LABOCA, X-SHOOTER, Z-Spec	086.A-0793, 086.A-0797, 086.F-9318, 087.A-0815, 087.F-9320, 088.A-0902, 2011.0.00957.S, 2011.0.00958.S, 284.A-5029, Max-Planck data	2013ApJ...767..132H
2013	Weiß, A. et al.	ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec	086.A-0793, 086.A-1002, 087.A-0815, 087.A-0968, 088.A-0902, 2011.0.00957.S, Max-Planck data	2013ApJ...767...88W

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The image shows two screenshots from the ESO website. The left screenshot is the 'ESO Observation Schedule' page for program ID '088.A-0902(D)'. It features a table with various observation parameters. The right screenshot is the 'ESO Telescope Bibliography' search results page for the same program ID, showing a list of three publications with their authors, titles, instruments, and data access links.

Parameter	Value
Period	88
Mode	Service
Telescope	UT1-Antu
Allocated time	24 h
Programme Type	Normal
Instrument	FORS2
PI/CoI	CHAPMAN/ STROM/ GR
Observer	
Remarks	
Title	Revealing the
Abstract	Abstract of p
Raw Products	FileList
Publications	PublicationList [3]

YEAR	AUTHOR	TITLE	INSTRUMENTS	ACCESS TO DATA	FULLTEXT ADS
2013	Vieira, J. D. et al.	Dusty starburst galaxies in the early Universe as revealed by gravitational lensing	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec	086.A-0793, 086.A-1002, 087.A-0815, 087.A-0968, 088.A-0902, 2011.0.00957.S, 2011.0.00958.S, Max-Planck data	2013Natur.495..344V
2013	Hezaveh, Y. D. et al.	ALMA Observations of SPT-discovered, Strongly Lensed, Dusty, Star-forming Galaxies	ALMA_Bands, FORS2, ISAAC, LABOCA, X-SHOOTER, Z-Spec	086.A-0793, 086.A-0797, 086.F-9318, 087.A-0815, 087.F-9320, 088.A-0902, 2011.0.00957.S, 2011.0.00958.S, 284.A-5029, Max-Planck data	2013ApJ...767..132H
2013	Weiß, A. et al.	ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec	086.A-0793, 086.A-1002, 087.A-0815, 087.A-0968, 088.A-0902, 2011.0.00957.S, Max-Planck data	2013ApJ...767...88W

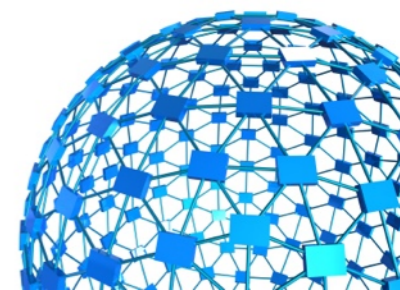
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DETAILED INFORMATION

Author(s)	Wei, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre, J. E.; Aird, K. A.; Aravena, M.; Ashby, M. L. N.; Bayliss, M.; Benson, B. A.; Bthermin, M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Bradford, C. M.; Brodwin, M.; Carlstrom, J. E.; Chang, C. L.; Chapman, S. C.; Crawford, T. M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Downes, T. P.; Fassnacht, C. D.; George, E. M.; Gladders, M. D.; Gonzalez, A. H.; Greve, T. R.; Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holder, G. P.; Holzapfel, W. L.; Hoover, S.; Hrubes, J. D.; Husband, K.; Keisler, R.; Lee, A. T.; Leitch, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McIntyre, V.; McMahon, J. J.; Mehl, J.; Menten, K. M.; Meyer, S. S.; Murphy, E. J.; Padin, S.; Plagge, T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruel, J.; Ruhl, J. E.; Schaffer, K. K.; Shirokoff, E.; Spilker, J. S.; Staider, B.; Staniszewski, Z.; Stark, A. A.; Story, K.; Vanderlinde, K.; Welikala, N.; Williamson, R.
Title	ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies
Keywords	cosmology: observations, early universe, galaxies: evolution, galaxies: high-redshift, ISM: molecules
Abstract	show abstract
Publication details	ApJ, 2013, vol. 767, p. 88-
BibCode	2013ApJ...767...88W
Fulltext (via ADS)	ADS
Citations (from ADS)	9 Altmetric 17
Further information	http://www.eso.org/public/news/eso1313/ (Press Release)
Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor , Paranal , Staff+Instr , Surveys+PRs
ProgramID(s)	2011.0.00957.S (access to data), ALMA-Partner: Europe 088.A-0902 (access to data) 086.A-0793 (access to data), APEX-Partner: ESO 086.A-1002 (access to data), APEX-Partner: ESO 087.A-0815 (access to data), APEX-Partner: ESO 087.A-0968 (access to data), APEX-Partner: ESO Max-Planck data, APEX-Partner: Max-Planck

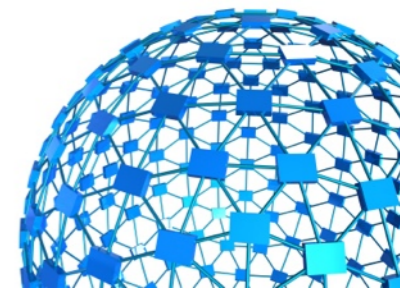
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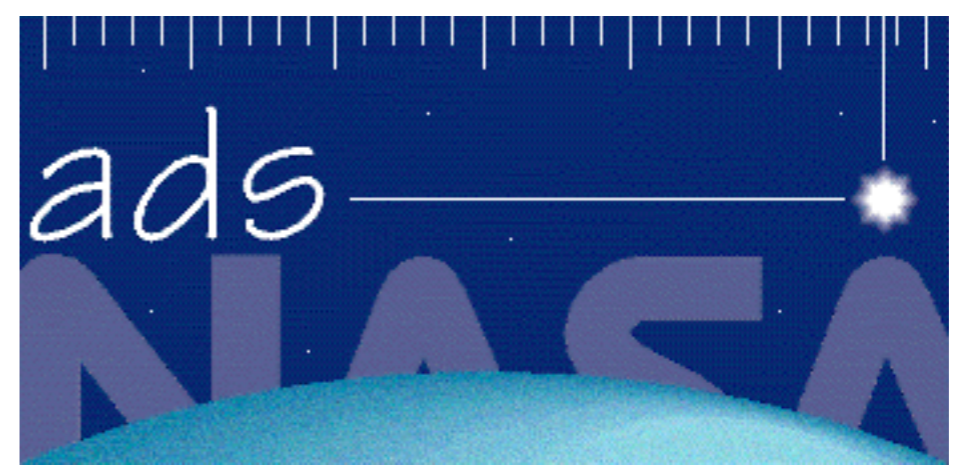
Author(s)	Wei, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Downe, S.; Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holmbeck, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McClure, T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Rueland, A.; Story, K.; Vanderlinde, K.; Welikala, N.; Williams, R. L.
Title	ALMA Redshifts of Millimeter-selected Galaxies
Keywords	cosmology: observations, early universe, galaxies
Abstract	show abstract
Publication details	ApJ, 2013, vol. 767, p. 88-
BibCode	2013ApJ...767...88W
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Citations (from ADS)	9 17

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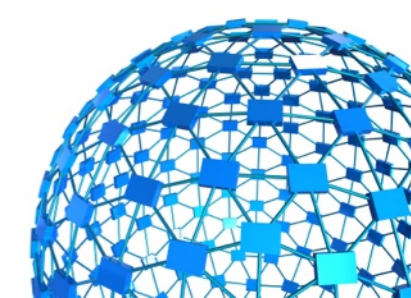
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Further information <http://www.eso.org/public/news/eso1313/> (Press Release)

Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor , Paranal , Staff+Instr , Surveys+PRs
ProgramID(s)	2011.0.00957.S (access to data), ALMA-Partner: Europe 088.A-0902 (access to data) 086.A-0793 (access to data), APEX-Partner: ESO 086.A-1002 (access to data), APEX-Partner: ESO 087.A-0815 (access to data), APEX-Partner: ESO 087.A-0968 (access to data), APEX-Partner: ESO Max-Planck data, APEX-Partner: Max-Planck

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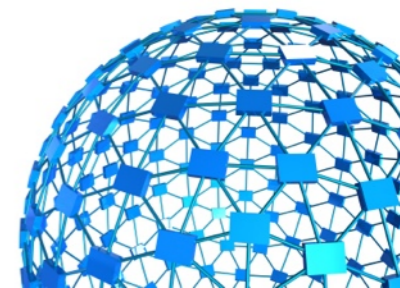
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Title: ALMA Redshifts of Millimeter-selected Galaxies from the SPT [Survey](#): The Redshift Distribution of Dusty Star-forming Galaxies

Authors: [Weiß, A.](#); [De Breuck, C.](#); [Marrone, D. P.](#); [Vieira, J. D.](#); [Aguirre, J. E.](#); [Aird, K. A.](#); [Aravena, M.](#); [Ashby, M. L. N.](#); [Bayliss, M.](#); [Benson, B. A.](#); [Béthermin, M.](#); [Biggs, A. D.](#); [Bleem, L. E.](#); [Bock, J. J.](#); [Bothwell, M.](#); [Bradford, C. M.](#); [Brodwin, M.](#); [Carlstrom, J. E.](#); [Chang, C. L.](#); [Chapman, S. C.](#); [Crawford, T. M.](#); [Crites, A. T.](#); [de Haan, T.](#); [Dobbs, M. A.](#); [Downes, T. P.](#); [Fassnacht, C. D.](#); [George, E. M.](#); [Gladders, M. D.](#); [Gonzalez, A. H.](#); [Greve, T. R.](#); [Halverson, N. W.](#); [Hezaveh, Y. D.](#); [High, F. W.](#); [Holder, G. P.](#); [Holzapfel, W. L.](#); [Hoover, S.](#); [Hrubes, J. D.](#); [Husband, K.](#); [Keisler, R.](#); [Lee, A. T.](#); [Leitch, E. M.](#); [Lueker, M.](#); [Luong-Van, D.](#); [Malkan, M.](#); [McIntyre, V.](#); [McMahon, J. J.](#); [Mehl, J.](#); [Menten, K. M.](#); [Meyer, S. S.](#); [Murphy, E. J.](#); [Padin, S.](#); [Plagge, T.](#); [Reichardt, C. L.](#); [Rest, A.](#); [Rosenman, M.](#); [Ruel, J.](#); [Ruhl, J. E.](#); [Schaffer, K. K.](#); [Shirokoff, E.](#); [Spilker, J. S.](#); [Stalder, B.](#); [Staniszewski, Z.](#); [Stark, A. A.](#); [Story, K.](#); [Vanderlinde, K.](#); [Welikala, N.](#); [Williamson, R.](#)

Affiliation: AA(Max-Planck-Institut für Radioastronomie, Auf dem Hügel 69, D-53121 Bonn, Germany), AB(European Southern Observatory, Karl-Schwarzschild Straße, D-85748 Garching bei München, Germany), AC(Steward Observatory, University of Arizona, 933 North Cherry



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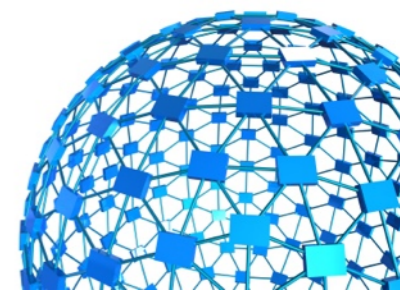
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Title: ALMA Redshifts of Millimeter-selected Galaxies from the SPT [Survey](#): The Redshift Distribution of Dusty Star-forming Galaxies

Authors: [Weiß, A.](#); [De Breuck, C.](#); [Marrone, D. P.](#); [Vieira, J. D.](#); [Aguirre, J. E.](#); [Aird, K. A.](#); [Aravena, M.](#); [Ashby, M. L. N.](#); [Bayliss, M.](#); [Benson, B. A.](#); [Béthermin, M.](#); [Biggs, A. D.](#); [Bleem, L. E.](#); [Bock, J. J.](#); [Bothwell, M.](#); [Bradford, C. M.](#); [Brodwin, M.](#); [Carlstrom, J. E.](#); [Chang, C. L.](#); [Chapman, S. C.](#); [Crawford, T. M.](#); [Crites, A. T.](#); [de Haan, T.](#); [Dobbs, M. A.](#); [Downes, T. P.](#); [Fassnacht, C. D.](#); [George, E. M.](#); [Gladders, M. D.](#); [Gonzalez, A. H.](#); [Greve, T. R.](#); [Halverson, N. W.](#); [Hezaveh, Y. D.](#); [High, F. W.](#); [Holder, G. P.](#); [Holzapfel, W. L.](#); [Hoover, S.](#); [Hrubes, J. D.](#); [Husband, K.](#); [Keisler, R.](#); [Lee, A. T.](#); [Leitch, E. M.](#); [Lueker, M.](#); [Luong-Van, D.](#); [Malkan, M.](#); [McIntyre, V.](#); [McMahon, J. J.](#); [Mehl, J.](#); [Menten, K. M.](#); [Meyer, S. S.](#); [Murphy, E. J.](#); [Padin, S.](#); [Plagge, T.](#); [Reichardt, C. L.](#); [Rest, A.](#); [Rosenman, M.](#); [Ruel, J.](#); [Ruhl, J. E.](#); [Schaffer, K. K.](#); [Shirokoff, E.](#); [Spilker, J. S.](#); [Stalder, B.](#); [Staniszewski, Z.](#); [Stark, A. A.](#); [Story, K.](#); [Vanderlinde, K.](#); [Welikala, N.](#); [Williamson, R.](#)

Affiliation: AA(Max-Planck-Institut für Radioastronomie, Auf dem Hügel 69, D-53121 Bonn, Germany), AB(European Southern Observatory, Karl-Schwarzschild Straße, D-85748 Garching bei München, Germany), AC(Steward Observatory, University of Arizona, 933 North Cherry



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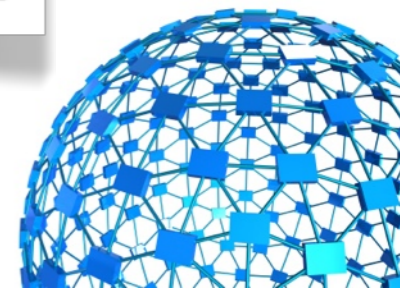
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#	Bibcode	Score	Date	List of Links
1	<input type="checkbox"/> 2013Natur.498..198C Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Stancliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank	1.000	06/2013	A E X D R C S U
2	<input type="checkbox"/> 2013ApJ...767...88W Weiß, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre, J. E.; Aird, K. A.; Aravena, M.; Ashby, M. L. N.; Bayliss, M.; Benson, B. A.; and 57 coauthors	1.000	04/2013	A E F X D R C S U
3	<input type="checkbox"/> 2013A&A...549A...3C Coccatto, L.; Morelli, L.; Pizzella, A.; Corsini, E. M.; Buson, L. M.; Dalla Bontà, E.	1.000	01/2013	A E F X D R C S U



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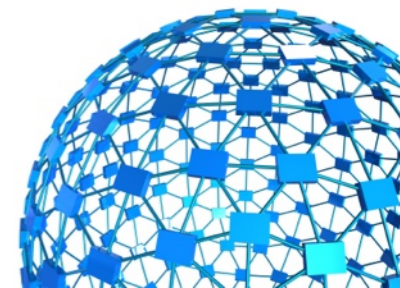
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Select References In:

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 - [Cfa](#)
 - [ESO/Lib](#)
 - [ESO/Telescopes](#)
 - [HST](#)
 - [ISO](#)

ADS 'D-links'

# Bibcode	Score	Date	List of Links	Access Control	Help
1 <input type="checkbox"/> 2013Natur.498..198C Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Stancliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank	1.000	06/2013	A E X D R C S U		
2 <input type="checkbox"/> 2013ApJ...767...88W Weiß, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre, J. E.; Aird, K. A.; Aravena, M.; Ashby, M. L. N.; Bayliss, M.; Benson, B. A.; and 57 coauthors	1.000	04/2013	A E F X D R C S U		
3 <input type="checkbox"/> 2013A&A...549A...3C Coccatto, L.; Morelli, L.; Pizzella, A.; Corsini, E. M.; Buson, L. M.; Dalla Bontà, E.	1.000	01/2013	A E F X D R C S U		



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+ search criterium, e.g., pub year

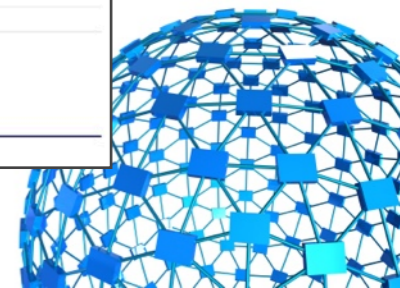
Select References In:

- All Groups
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- All of the following groups (AND):
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 - [Cfa](#)
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ADS 'D-links'

#	Bibcode	Score	Date	List of Links	Access Control	Help
1	2013Natur.498..198C Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Stancliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank	1.000	06/2013	A E X D R C S		
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3	2013A&A...549A...3C Coccatto, L.; Morelli, L.; Pizzella, A.; Corsini, E. M.; Buson, L. M.; Dalla Bontà, E.	1.000	01/2013	A E F X D R C S		

The screenshot shows the 'Detailed Information' page for the paper 'ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies'. It lists authors, title, keywords, abstract, publication details, bibcode, fulltext availability, citations, and further information.



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Select References In:

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- At least one of the following groups (OR):
- All of the following groups (AND):
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 - [Cfa](#)
 - [ESO/Lib](#)
 - [ESO/Telescopes](#)
 - [HST](#)
 - [ISO](#)



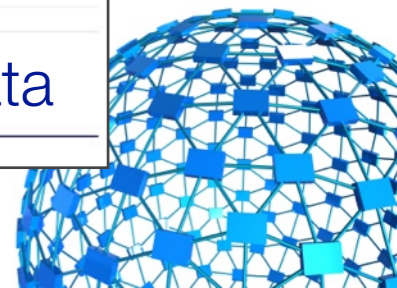
ADS 'D-links'

# Bibcode	Score	Date	List of Links
Authors	Title		Access Control Help
1 <input type="checkbox"/> 2013Natur.498..198C Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Stancliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank	1.000	06/2013	A E X D R C S
2 <input type="checkbox"/> 2013ApJ...767...88W Weiβ, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre, J. E.; Aird, K. A.; Aravena, M.; Ashby, M. L. N.; Bayliss, M.; Benson, B. A.; and 57 coauthors	1.000	04/2013	A E F X D R C S
3 <input type="checkbox"/> 2013A&A...549A...3C Coccato, L.; Morelli, L.; Pizzella, A.; Corsini, E. M.; Buson, L. M.; Dalla Bontà, E.	1.000	01/2013	A E F X D R C S

ESO Archive / Observation Schedule

The screenshot shows the ESO Archive Query Form with various filters and search options. A blue arrow points from the 'D-links' in the ADS table to the 'D' link in the second row of the ADS table, which then points to the 'Detailed Information' section of the ESO Archive interface.

access to data



telbib → ESO Press Release

The screenshot shows the ESO Telescope Bibliography interface. At the top left is the ESO logo and 'European Southern Observatory'. The main header is 'ESO Telescope Bibliography'. Navigation links include 'telbib Statistics', 'API', 'Help', 'Libraries Home', 'Archive Home', and 'ESO Home'. Below the header are buttons for 'NEW SEARCH' and 'EDIT SEARCH', and a link 'back to results'. The main content area is titled 'DETAILED INFORMATION' and contains the following fields:

Author(s)	Wei, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre, J. E.; Aird, K. A.; Aravena, M.; Ashby, M. L. N.; Bayliss, M.; Benson, B. A.; Bthermin, M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Bradford, C. M.; Brodwin, M.; Carlstrom, J. E.; Chang, C. L.; Chapman, S. C.; Crawford, T. M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Downes, T. P.; Fassnacht, C. D.; George, E. M.; Gladders, M. D.; Gonzalez, A. H.; Greve, T. R.; Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holder, G. P.; Holzapfel, W. L.; Hoover, S.; Hrubes, J. D.; Husband, K.; Keisler, R.; Lee, A. T.; Leitch, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McIntyre, V.; McMahon, J. J.; Mehl, J.; Menten, K. M.; Meyer, S. S.; Murphy, E. J.; Padin, S.; Plagge, T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruel, J.; Ruhl, J. E.; Schaffer, K. K.; Shirokoff, E.; Spilker, J. S.; Stalder, B.; Staniszewski, Z.; Stark, A. A.; Story, K.; Vanderlinde, K.; Welikala, N.; Williamson, R.
Title	ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies
Keywords	cosmology: observations, early universe, galaxies: evolution, galaxies: high-redshift, ISM: molecules
Abstract	show abstract
Publication details	ApJ, 2013, vol. 767, p. 88-
BibCode	2013ApJ...767...88W
Fulltext (via ADS)	ADS → fulltext
Citations (from ADS)	9 Altmetric 17
Further information	http://www.eso.org/public/news/eso1313/ (Press Release)
Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor, Paranal, Staff+Instr, Surveys+PRs
ProgramID(s)	2011.0.00957.S (access to data), ALMA-Partner: Europe 088.A-0902 (access to data) 086.A-0793 (access to data), APEX-Partner: ESO 086.A-1002 (access to data), APEX-Partner: ESO 087.A-0815 (access to data), APEX-Partner: ESO 087.A-0968 (access to data), APEX-Partner: ESO Max-Planck data, APEX-Partner: Max-Planck

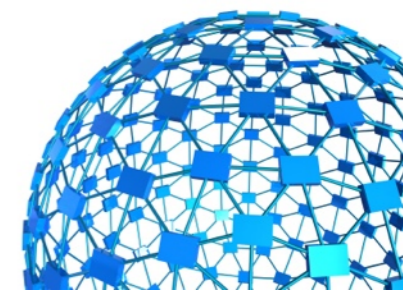
Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013ApJ...767...88W>

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telbib → ESO Press Release



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NEW SEARCH EDIT SEARCH

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DETAILED INFORMATION

Author(s)	Weiβ, A.; De Breuck, C.; Marrone, D. P.; Vieira, J. D.; Aguirre M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Brack M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Downes, T. P.; Falgout, C.; Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holder, G. P.; Jethava, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McIntyre, V.; Moseley, S. S.; Reiche, S.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruel, J.; Ruhl, J. R.; Scaife, A. M. S.; Story, K.; Vanderlinde, K.; Welikala, N.; Williamson, R.
Title	ALMA Redshifts of Millimeter-selected Galaxies from the ...
Keywords	cosmology: observations, early universe, galaxies: evolution,
Abstract	show abstract
Publication details	ApJ, 2013, vol. 767, p. 88-
BibCode	2013ApJ...767...88W
Fulltext (via ADS)	ADS → fulltext
Citations (from ADS)	9 17

bibliographic info

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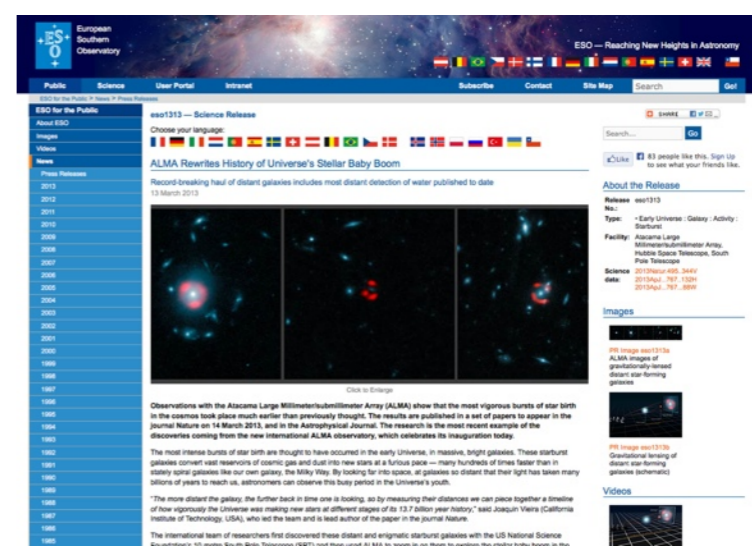
instruments
proIDs

Further information	http://www.eso.org/public/news/eso1313/ (Press Release) →
Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor, Paranal, Staff+Instr, Surveys+PRs
ProgramID(s)	2011.0.00957.S (access to data), ALMA-Partner: Europe 088.A-0902 (access to data) 086.A-0793 (access to data), APEX-Partner: ESO 086.A-1002 (access to data), APEX-Partner: ESO 087.A-0815 (access to data), APEX-Partner: ESO 087.A-0968 (access to data), APEX-Partner: ESO Max-Planck data, APEX-Partner: Max-Planck

access to data

Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013ApJ...767...88W>

ESO Press Release



access to ESO Press Release



telbib → ESO Press Release

The screenshot shows the ESO website interface. At the top left is the ESO logo and the text "European Southern Observatory". To the right, it says "ESO — Reaching New Heights in Astronomy" with a row of flags representing member states. Below this is a navigation bar with links for "Public", "Science", "User Portal", "Intranet", "Subscribe", "Contact", "Site Map", "Search", and "Go!".

The main content area is titled "eso1313 — Science Release". It includes a language selection tool and a row of flags. The headline is "ALMA Rewrites History of Universe's Stellar Baby Boom". Below the headline is a sub-headline: "Record-breaking haul of distant galaxies includes most distant detection of water published to date" and the date "13 March 2013".

There are three large images showing ALMA observations of distant galaxies. The first image shows a galaxy with a bright red core and blue filaments. The second image shows a galaxy with a bright red core and blue filaments. The third image shows a galaxy with a bright red core and blue filaments. Below the images is a "Click to Enlarge" link.

The text below the images reads: "Observations with the Atacama Large Millimeter/submillimeter Array (ALMA) show that the most vigorous bursts of star birth in the cosmos took place much earlier than previously thought. The results are published in a set of papers to appear in the journal Nature on 14 March 2013, and in the Astrophysical Journal. The research is the most recent example of the discoveries coming from the new international ALMA observatory, which celebrates its inauguration today."

The text continues: "The most intense bursts of star birth are thought to have occurred in the early Universe, in massive, bright galaxies. These starburst galaxies convert vast reservoirs of cosmic gas and dust into new stars at a furious pace — many hundreds of times faster than in stately spiral galaxies like our own galaxy, the Milky Way. By looking far into space, at galaxies so distant that their light has taken many billions of years to reach us, astronomers can observe this busy period in the Universe's youth."

A quote follows: "The more distant the galaxy, the further back in time one is looking, so by measuring their distances we can piece together a timeline of how vigorously the Universe was making new stars at different stages of its 13.7 billion year history," said Joaquin Vieira (California Institute of Technology, USA), who led the team and is lead author of the paper in the journal Nature.

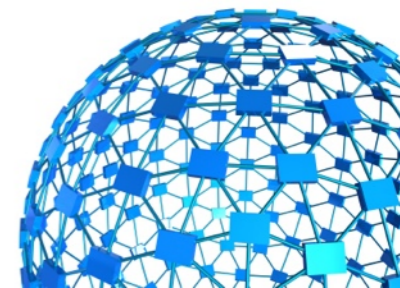
The text concludes: "The international team of researchers first discovered these distant and enigmatic starburst galaxies with the US National Science Foundation's 10-metre South Pole Telescope (SPT) and then used ALMA to zoom in on them to explore the stellar baby boom in the

On the right side of the page, there is a "SHARE" button, a search bar, and a "Like" button. Below these is a section titled "About the Release" with the following information:

- Release No.: eso1313
- Type: Early Universe : Galaxy : Activity : Starburst
- Facility: Atacama Large Millimeter/submillimeter Array, Hubble Space Telescope, South Pole Telescope
- Science data: 2013Natur.495..344V, 2013ApJ...767..132H, 2013ApJ...767...88W

Below this is a section titled "Images" with two thumbnails. The first thumbnail is labeled "PR Image eso1313a" and is described as "ALMA images of gravitationally-lensed distant star-forming galaxies". The second thumbnail is labeled "PR Image eso1313b" and is described as "Gravitational lensing of distant star-forming galaxies (schematic)".

At the bottom right of the page, there is a section titled "Videos" with a thumbnail image.



telbib → ESO Press Release

The screenshot shows the ESO website interface. At the top left is the ESO logo and the text 'European Southern Observatory'. A navigation bar includes 'Public', 'Science', 'User Portal', 'Intranet', 'Subscribe', 'Contact', 'Site Map', 'Search', and 'Go!'. The main content area features a sidebar with 'ESO for the Public' and 'News' sections. The main article is titled 'eso1313 — Science Release' and 'ALMA Rewrites History of Universe's Stellar Baby Boom', dated 13 March 2013. It includes a large image of distant galaxies and a list of science data. A blue circle highlights the data in the 'About the Release' section. A white box in the foreground contains the same data in a larger font.

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- 1985

eso1313 — Science Release

Choose your language:

ALMA Rewrites History of Universe's Stellar Baby Boom

Record-breaking haul of distant galaxies includes most distant detection of water published to date

13 March 2013

Science data:

- 2013Natur.495...344V
- 2013ApJ...767..132H
- 2013ApJ...767...88W

About the Release

Release No.: eso1313

Type: • Early Universe : Galaxy : Activity : Starburst

Facility: Atacama Large Millimeter/submillimeter Array, Hubble Space Telescope, South Pole Telescope

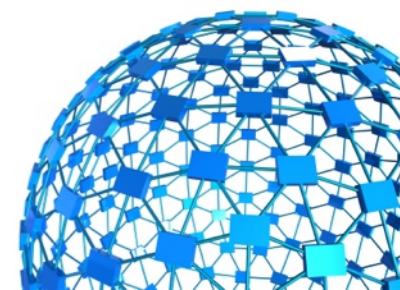
Science data: 2013Natur.495...344V, 2013ApJ...767..132H, 2013ApJ...767...88W

Images

PR Image eso1313a
ALMA images of gravitationally-lensed distant star-forming galaxies

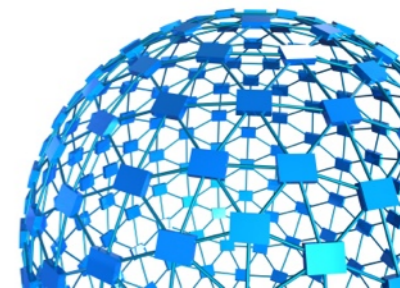
PR Image eso1313b
Gravitational lensing of distant star-forming galaxies (schematic)

Videos



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The screenshot shows the ESO website interface. At the top left is the ESO logo and the text 'European Southern Observatory'. The top right features the slogan 'ESO — Reaching New Heights in Astronomy' and a row of international flags. Below this is a navigation bar with links for 'Public', 'Science', 'User Portal', 'Intranet', 'Subscribe', 'Contact', 'Site Map', a search box, and a 'Go!' button. The main content area is titled 'eso1313 — Science Release' and includes a language selection tool and a row of flags. The headline is 'ALMA Rewrites History of Universe's Stellar Baby Boom' with a sub-headline 'Record-breaking haul of distant galaxies includes most distant detection of water published to date' and the date '13 March 2013'. Three astronomical images are displayed. A blue circle highlights the 'Science data:' section, which lists three references: '2013Natur.495..344V', '2013ApJ...767..132H', and '2013ApJ...767...88W'. A white callout box with a blue border contains the text: 'Science 2013Natur.495...344V', 'data: 2013ApJ...767..132H', '2013ApJ...767...88W', and '↳ access to telbib papers featured in Press Release (and from there to data)'. The right sidebar contains social media sharing options, a search box, a 'Like' button, and an 'About the Release' section with details on the release number, type, facility, and science data. Below this are sections for 'Images' and 'Videos'.



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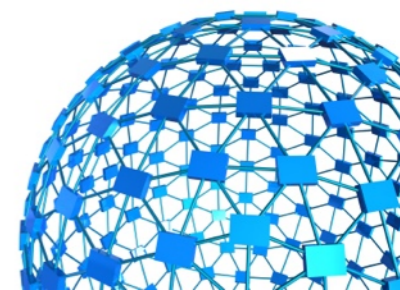
NEW SEARCH EDIT SEARCH

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DETAILED INFORMATION

Author(s)	Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Standcliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank
Title	Sodium content as a predictor of the advanced evolution of globular cluster stars
Keywords	not available
Abstract	The asymptotic giant branch (AGB) phase is the final stage of nuclear burning for low-mass stars. Although Milky Way globular clusters are now known to harbour (at least) two generations of stars, they still provide relatively homogeneous samples of stars that are used to constrain stellar evolution theory. It is predicted by stellar models that the majority of cluster stars with masses around the current turn-off mass (that is, the mass of the stars that are currently leaving the main sequence phase) will evolve through the AGB phase. Here we report that all of the second-generation stars in the globular cluster NGC 6752--70 per cent of the cluster population--fail to reach the AGB phase. Through spectroscopic abundance measurements, we found that every AGB star in our sample has a low sodium abundance, indicating that they are exclusively first-generation stars. This implies that many clusters cannot reliably be used for star counts to test stellar evolution timescales if the AGB population is included. We have no clear explanation for this observation. hide abstract ↗
Publication details	Nature, 2013, vol. 498, p. 198-200
BibCode	2013Natur.498..198C
Fulltext (via ADS)	ADS → fulltext
Citations (from ADS)	1 Altmetric 58
Further information	http://www.eso.org/public/news/eso1323/ (Press Release) → ESO Press Release
Instrument(s)	FLAMES-GIRAFFE
Telescope(s)	PressRelease, VLT
Site(s)	Paranal, Surveys+PRs
ProgramID(s)	089.D-0038 (access to data) → access to data

Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013Natur.498..198C>



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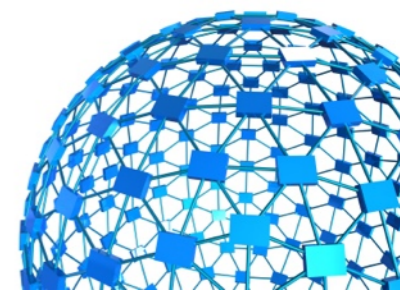
NEW SEARCH EDIT SEARCH

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Author(s)	Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Standcliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank
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Further information	http://www.eso.org/public/news/eso1323/ (Press Release) → ESO Press Release
Instrument(s)	FLAMES-GIRAFFE
Telescope(s)	PressRelease, VLT
Site(s)	Paranal, Surveys+PRs
ProgramID(s)	089.D-0038 (access to data) → access to data

Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013Natur.498..198C>



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Selected astronomical object brings up 'tooltip' with links to CDS databases

European Southern Observatory

ESO Telescopes

NEW SEARCH EDIT SEARCH

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DETAILED INFORMATION

Author(s)	Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Theodora; Wylie-de Boer, Elizabeth C.; Grundahl, Frank
Title	Sodium content as a predictor of the advanced evolution of globular clusters
Keywords	not available
Abstract	The asymptotic giant branch (AGB) phase is the final stage of nuclear evolution for stars. It is predicted that AGB stars still provide relevant information on the evolution theory. It is predicted that AGB stars will eventually contribute to the enrichment of the interstellar medium. In this paper, we present abundance measurements of the AGB stars in the globular cluster NGC 6752. Our sample consists of 10 stars. This implies that the AGB stars can be used as a reliable tool for abundance measurements. We have no clear explanation for this observation.
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Further information	http://www.eso.org/public/news/eso1323/ (Press Release) → ESO Press Release
Instrument(s)	FLAMES-GIRAFFE
Telescope(s)	PressRelease, VLT
Site(s)	Paranal, Surveys+PRs
ProgramID(s)	089.D-0038 (access to data) → access to data

Persistent URL: <http://telbib.eso.org/detail.php?bibcode=2013Natur.498..198C>

NGC 6752

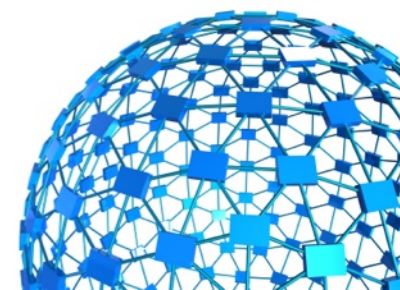
J2000: 19 10 52.11 -59 59 04.4

- [Search NGC 6752 in SIMBAD](#)
- [Search NGC 6752 in CDS portal](#)
- [Search NGC 6752 in VizieR](#)

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Target:
J2000 position for NGC 6752: 19 10 52.11 -59 59 04.4

Object identifiers, measurements and bibliography for NGC 6752

- Object type: Globular Cluster
- [More SIMBAD data for NGC 6752](#)
- [1384 bibliographic references](#)
- [89 objects within 2'](#)
- [Display map around NGC 6752](#)
- [Display SimPlay interactive map around NGC 6752](#)
- [Related objects in bibliography:](#)

Number of bibliographic references for NGC 6752

Images for NGC 6752

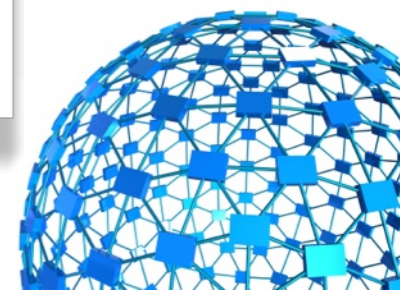
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Survey	Band	λ (μm)	Size	Epoch	Resolution	Download
ESO	R	0.66	11.4' x 11.4'	1987-05-11	0.6" / pixel	JPEG FITS
DENIS	I	0.79	12.4' x 12.4'	1996-09-01	0.9" / pixel	FITS
DENIS	J	1.23	12.6' x 12.7'	1996-09-01	0.9" / pixel	FITS
DENIS	K	2.16	12.6' x 12.7'	1996-09-01	0.9" / pixel	FITS
2MASS	J	1.24	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	K	2.16	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	H	1.65	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	K	2.16	8.5' x 17.0'	1999-10-26	0.9" / pixel	FITS

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Catalogues for NGC 6752

- [12 catalogues with 'NGC 6752' keyword](#)



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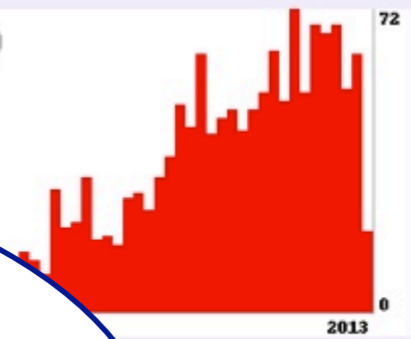
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Target:
J2000 position for NGC 6752: 19 10 52.11 -59 59 04.4

Object identifiers, measurements and bibliography for NGC 6752

- Object type: Globular Cluster
- [More SIMBAD data for NGC 6752](#)
- [1384 bibliographic references](#)
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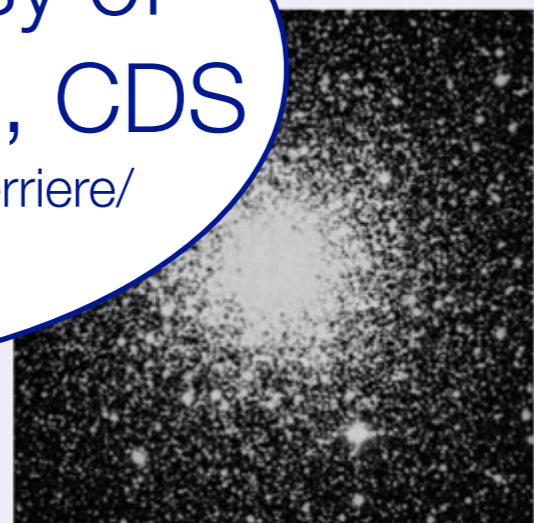
Number of bibliographic references for NGC 6752



Images for NGC 6752

- [Display region in Aladin \(Web Start\)](#)

Survey	Band	λ (μm)	Size	Epoch	Resolution	
ESO	R	0.66	11.4' x 11.4'	1987-05-11	0.6" / pixel	
DENIS	I	0.79	12.4' x 12.4'	1996-09-01	0.9" / pixel	FITS
DENIS	J	1.23	12.6' x 12.7'	1996-09-01	0.9" / pixel	FITS
DENIS	K	2.16	12.6' x 12.7'	1996-09-01	0.9" / pixel	FITS
2MASS	J	1.24	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	K	2.16	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	H	1.65	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
2MASS	K	2.16	8.5' x 17.0'	1999-10-26	0.9" / pixel	FITS



[Display color image](#)

Catalogues for NGC 6752

- [12 catalogues with 'NGC 6752' keyword](#)

Stabilobj courtesy of Sébastien Derriere, CDS
<http://astro.u-strasbg.fr/~derriere/>



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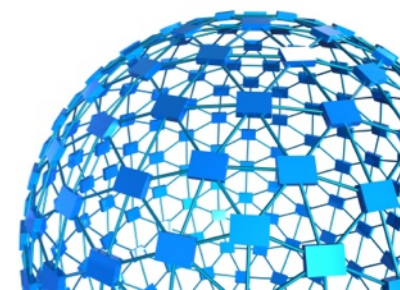
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DETAILED INFORMATION

Author(s)	Campbell, Simon W.; D'Orazi, Valentina; Yong, David; Constantino, Thomas N.; Lattanzio, John C.; Standcliffe, Richard J.; Angelou, George C.; Wylie-de Boer, Elizabeth C.; Grundahl, Frank
Title	Sodium content as a predictor of the advanced evolution of globular cluster stars
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Publication details	Nature, 2013, vol. 498, p. 198-200
BibCode	2013Natur.498..198C
Fulltext (via ADS)	ADS → fulltext
Citations (from ADS)	1 58
Further information	http://www.eso.org/public/news/eso1323/ (Press Release) → ESO PR
Instrument(s)	FLAMES-GIRAFFE
Telescope(s)	PressRelease, VLT
Site(s)	Paranal, Surveys+PRs
ProgramID(s)	089.D-0038 (access to data) → access to data

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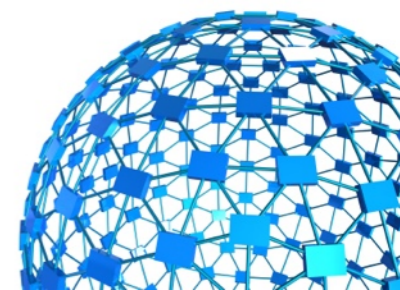
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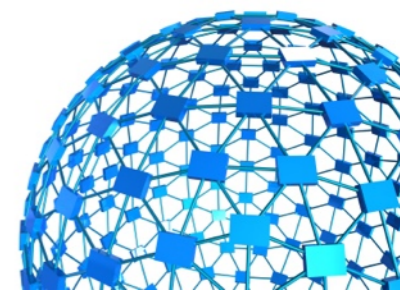
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Observations of gas flows inside a protoplanetary gap

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DER SPIEGEL Beobachtung im All: Astronomen feiern Geburt eines Gasplaneten
SPIEGEL ONLINE
Wie entstehen riesige Gasplaneten wie Jupiter? Astronomen haben jetzt erstmals beobachtet, wie sich ein solcher Gigant zusammenb ..
2013-01-03T10:40:00+00:00

Science NOW ScienceShot: Planets Feed Baby Star Their Leftovers
Science/AAAS
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2013-01-02T18:25:00+00:00

COSMOS How to make a gas giant
COSMOS magazine
Vast but uninhabitable gas giant planets such Jupiter and Saturn form by gobbling up gas and dust that envelope young stars in a ..
2013-01-02T21:47:00+00:00

pro-physik.de ALMA entdeckt Gasströme bei Planetenentstehung
pro-physik.de
Erstmals direkte Beobachtung von ausgedehnten Gasströmen, die Locke in Materiescheibe um jungen Stern berwinden. ..

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Publication details	Nature, 2013, vol. 498, p. 198-200
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Citations (from ADS)	1 Altmetric 58 altmetric.com
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ProgramID(s)	089.D-0038 (access to data) data

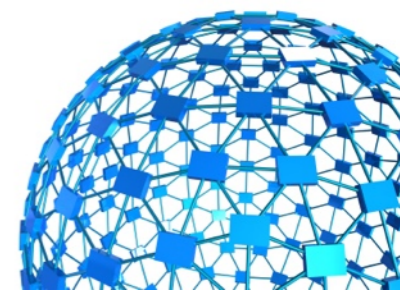
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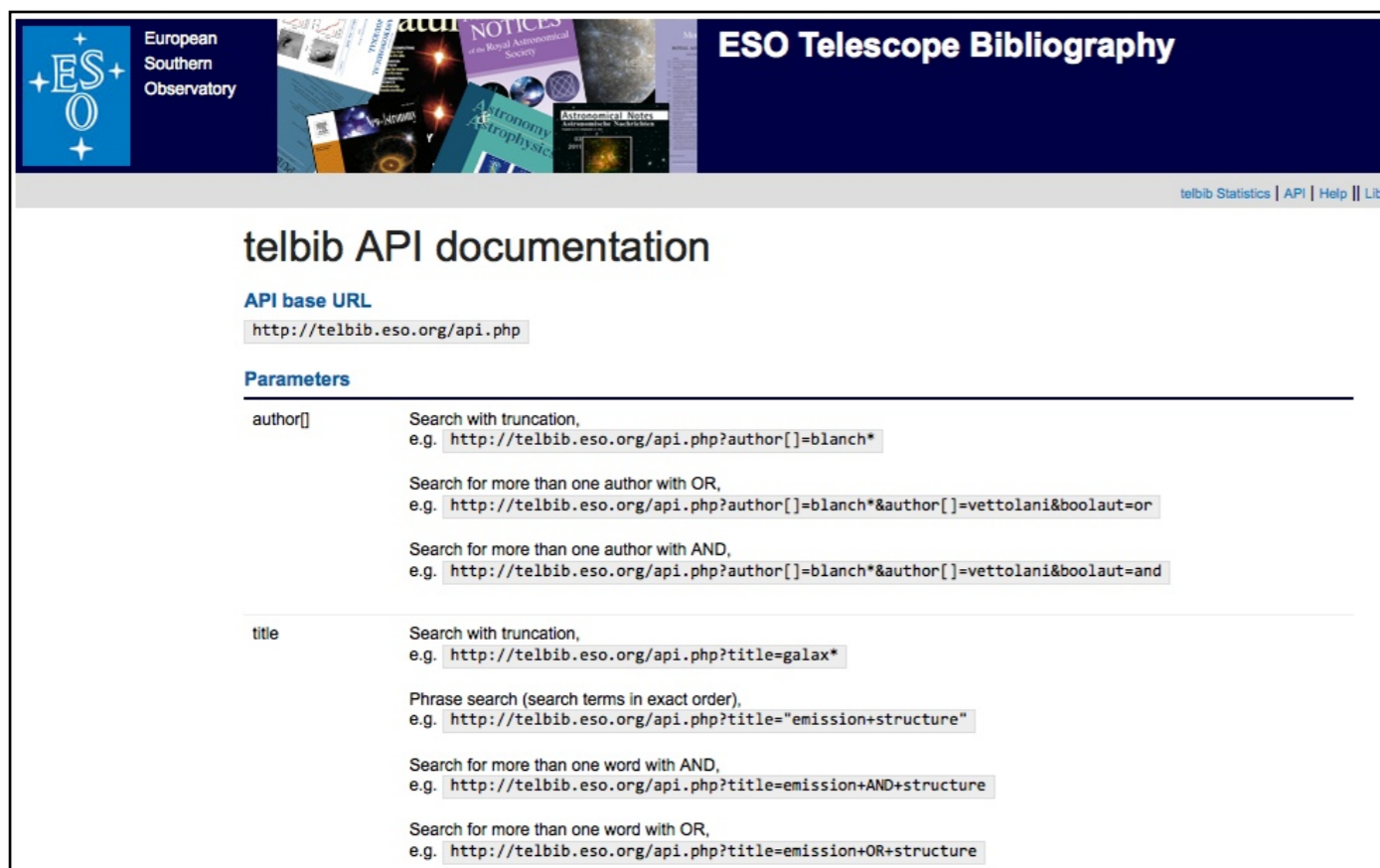
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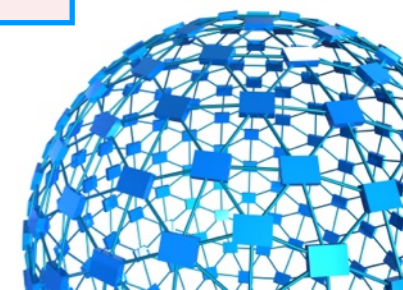
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  ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey:
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  Using the Atacama Large Millimeter/submillimeter Array, we have cond
  dusty star-forming galaxies (DSFGs) selected with the South Pole Telesc
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  which we identify as redshifted emission lines of 12CO, 13CO, C I, H2O
  this survey; in 12 of these sources we detect multiple lines, while in 11 s
  degeneracy with additional spectroscopic observations if available, or inf
  of the sample. The three sources with no lines detected are tentatively pla
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  to that of models in the literature.
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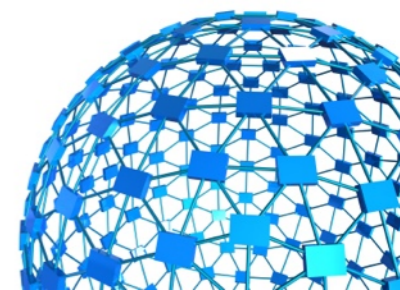
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- ▶ **ESO Observing Proposals Office:**
 - revised system under development; integrate telbib w/ new system
- ▶ **ESO archive data products:**
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- ▶ **Challenges:**
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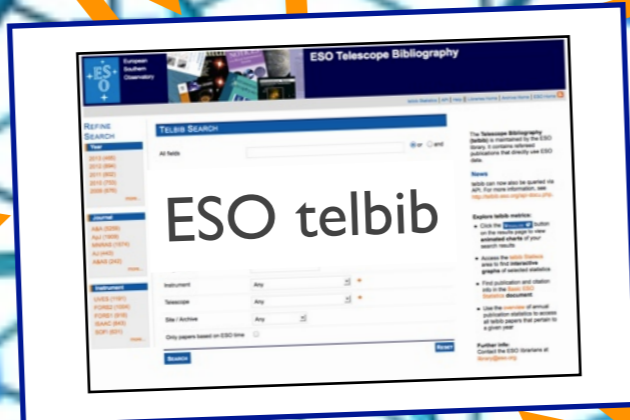


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Questions & suggestions:
Uta Grothkopf / Silvia Meakins
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