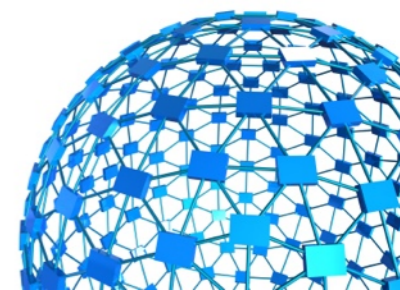




ESO telbib: an interconnected database

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





ESO Telescope Bibliography (telbib)

► What?

- Database of **refereed papers** that **use ESO data**
- Developed and curated by the **ESO Library**

► Why?

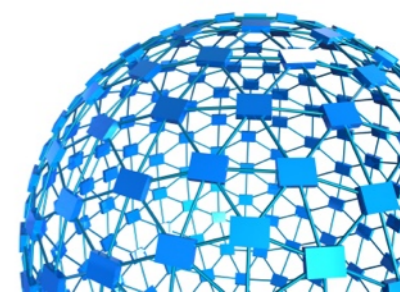
- **link** resources (papers -> data / proposals -> papers)
- measure ESO's **scientific output** (productivity + impact)
- **evaluate performance** of telescopes + instruments
- put **ESO in context** w/ other observatories
- define guidelines for **future facilities**

► 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



The telbib network - Overview



Linking in

Populating the telbib database



telbib backend

bib info

Edit Paper

PaperID: 48422 BibCode: [View ADS](#) | [View telbib](#) **Author(s): (Add/Edit/List/Delete)**

Bibliographic info:
CitationCount:

Title:

Private Comment:

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

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Additional tags: [Add/Edit](#)

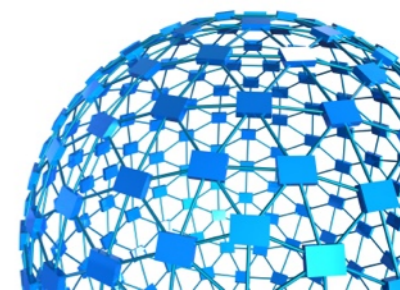
OR [Close Window](#)

Staff
 Staff
 Staff+Instr
 Refereed
 Made Public
 Shadow

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Location: --
Facilities:

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telescopes, instruments, program info



ADS → telbib

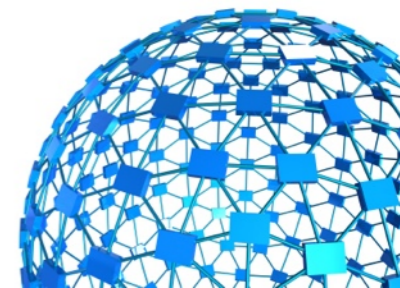
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  <author>Marrone, D. P.</author>
  <author>Vieira, J. D.</author>
  <author>Aguirre, J. E.</author>
  <author>Aird, K. A.</author>
  <author>Aravena, M.</author>
  <author>Ashby, M. L. N.</author>
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Bib info + metadata via XML interface:

- ▶ bibcode
- ▶ authors, affiliations, country (ESO site)
- ▶ title
- ▶ journal, vol., pages
- ▶ abstract, keywords
- ▶ citations, 'reads'

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- <affiliation>
  AA(Max-Planck-Institut für Radioastronomie, Auf dem Hügel 69, D-53121 I
  Garching bei München, Germany), AC(Steward Observatory, University of A
  Technology, 1200 E. California Blvd., Pasadena, CA 91125, USA), AE(Univ
  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
  Avenue, Chicago, IL 60637, USA), AK(Laboratoire AIM-Paris-Saclay, CEA
  Saclay, Orme des Merisiers, F-91191
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telbib backend

bibcode
bib info
citations
[reads]
title

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Bibliographic info: ApJ, vol. 767, pp. 88- (4/2013)
CitationCount: 8 | Reads:

Title:

Author(s): ([Add/Edit/List/Delete](#))
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authors
incl. affiliations

Private Comment:

e.g. Affil corrected manually
UVES POP (266.D-5655) r

[+] Abstract, Keywords

List of Programs
ID Mode

Additional tags: [Add](#)
Staff+Instr

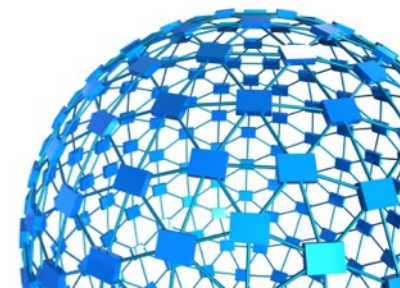
PaperID: 47709

RBE*	Rank	Accented Name	Translated Name	Affiliation	Country	ESO Site
1	1	Weiß, A.	Weiss, A.	Max-Planck-Institut	Germany	Choose ▾
2	2	De Breuck, C.	De Breuck, C.	European Southern	ESO	Garching ▾
3	3	Marrone, D. P.	Marrone, D. P.	Steward Observato	USA	Choose ▾
4	4	Vieira, J. D.	Vieira, J. D.	California Institute	USA	Choose ▾
5	5	Aguirre, J. E.	Aguirre, J. E.	University of Penns	USA	Choose ▾
6	6	Aird, K. A.	Aird, K. A.	University of Chicag	USA	Choose ▾
7	7	Aravena, M.	Aravena, M.	European Southern	ESO	Garching ▾
8	8	Ashby, M. L. N.	Ashby, M. L. N.	Harvard-Smithsonia	USA	Choose ▾
9	9	Bayliss, M.	Bayliss, M.	Harvard-Smithsonia	USA	Choose ▾
10	10	Benson, B. A.	Benson, B. A.	Kavli Institute for C	USA	Choose ▾
11	11	Béthermin, M.	Bethermin, M.	Laboratoire AIM-Pa	France	Choose ▾
12	12	Biggs, A. D.	Biggs, A. D.	European Southern	ESO	Garching ▾

ESO authors

DE B

Staff
 Staff+Instr
 Refereed
 Made Public ▾
 Shadow



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 observations
- ▶ ALMA to follow asap

List of Programs

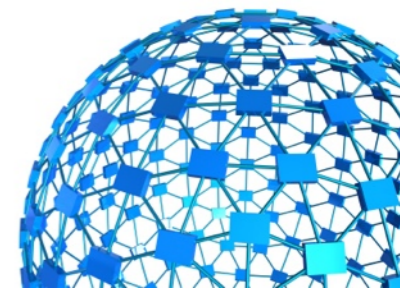
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088.A-0902(B)	ISAAC	sm	Normal	16 Chapman/ Vieira/ Marrone/ Del Alagband-Zadeh/ Strom/ Grev
088.A-0902(C)	FORS2	sm	Normal	4 Chapman/ Vieira/ Marrone/ Del Alagband-Zadeh/ Strom/ Grev
088.A-0902(C)	FORS2	sm	Normal	0 Chapman/ Vieira/ Marrone/ Del Alagband-Zadeh/ Strom/ Grev
088.A-0902(D)	FORS2	sm	Normal	24 Chapman/ Vieira/ Marrone/ Del Alagband-Zadeh/ Strom/ Grev

2 Archive search

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

The screenshot shows the ESO Archive Query Form interface. It includes a search bar, a 'Search' button, and a 'Reset' button. The 'Output preferences' are set to 'html table', 'Return max' is 200 rows, and 'All Fields' is selected. The form is divided into sections: 'Target, Program and Scheduling Information' and 'Observing Information'. The 'Target, Program and Scheduling Information' section includes fields for 'Target Name', 'RA', 'DEC', 'J2000', 'Search Box', 'Input', 'Output', 'List of Targets', 'Night', 'Start', 'End', 'Program ID', 'Program Type', 'PI Col', 'SY', and 'Title'. The 'Observing Information' section includes checkboxes for 'Imaging', 'Spectroscopy', 'Interferometry', and 'Other' instruments, and a 'Data Product Info' section with fields for 'Type', 'Mode', 'Dataset ID', 'Orig Name', 'Release Date', 'OB Name', 'OB ID', and 'Exptime'. There are also checkboxes for 'Category' (SCIENCE, CALIB, ACQUISITION) and 'Instrumental Setup'.

- ### 3
- ▶ Contact ESO instrument scientists
 - ▶ Communication with authors



telbib backend

Edit Paper

The current record has been updated.

PaperID: 48422 BibCode: [View ADS](#) | [View telbib](#)
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 ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey:
 The Redshift Distribution of Dusty Star-forming Galaxies

Private Comment:

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

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.) Holzzapfel, 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.;

First Author:

ESO Key :

- Staff
- Staff+Instr
- Refereed
- Made Public
- Shadow

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 Location:
 Facilities:

Data Management:

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 ModifiedDate: Jul 26 20
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List of Programs

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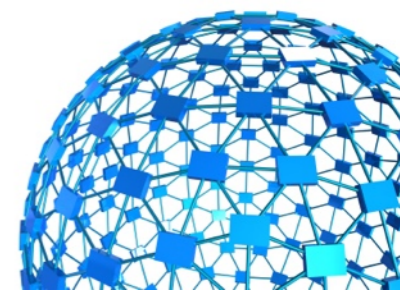
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telbib backend

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Public Comment:

URL:

[\[-\] Less Information](#)

List of **Programs**

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Staff+Instr **x**
:PressRelease **x**

Staff+Instr
 Refereed
 Made Public
 Shadow

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OR Close Window

other tags {
e.g., archive tags,
Press Release, surveys,
ESO visitor/national
telescopes,
ESO staff authors,



telbib backend completed

from ADS

added by librarians

from Archive

Edit Paper

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 Bibliographic info: ApJ, vol. 767, pp. 88- (4/2013)
 CitationCount: 9 | Reads: 288

Title:

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Public Comment:

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[\[-\] Less Information](#)

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 Staff+Instr ✖
 :PressRelease ✖

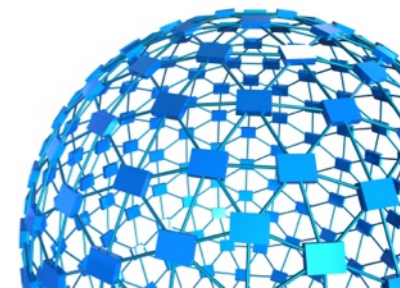
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First Author:

ESO Key :

Staff
 Staff+Instr
 Refereed
 Made Public



telbib frontend: <http://telbib.eso.org>

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'. Below the header are navigation links: 'telbib Statistics | API | Help || Libraries Home | Archive Home | ESO Home'. The main content area has a search bar with 'NEW SEARCH' and 'EDIT SEARCH' buttons, and a 'back to results' link. The 'DETAILED INFORMATION' section is highlighted with a blue bar. It contains the following fields:

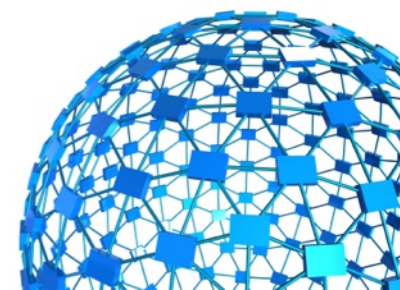
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Title	ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies
Keywords	cosmology: observations, early universe, galaxies: evolution, galaxies: high-redshift, ISM: molecules
Abstract	show abstract
Publication details	ApJ, 2013, vol. 767, p. 88-
BibCode	2013ApJ...767...88W
Fulltext (via ADS)	ADS
Citations (from ADS)	9 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>

bibliographic info

URL Press Rel.

instruments
proIDs



The telbib network - Linking in

-- summary --



Linking out

Providing information to other resources



telbib → ESO archive



NEW SEARCH EDIT SEARCH

[← back to results](#)

DETAILED INFORMATION

Author(s)	Wei, A.; De Breuck, C.; Marrone, D. P.; Vieira, M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Dowling, N. W.; Hezaveh, Y. D.; High, F. W.; Hogg, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; Marshall, T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruffoni, 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
Fulltext (via ADS)	ADS
Citations (from ADS)	9 17
Further information	http://www.eso.org/public/news/eso1313/ (Press Release)
Instrument(s)	ALMA_Bands, FORS2, LABOCA, SABOCA, ZEMUS
Telescope(s)	ALMA, APEX, PressRelease, VLT
Site(s)	Chajnantor, Paranal, Staff+Instr, Surveys+PR
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bibliographic info

URL Press Rel.

instruments
proIDs

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.

Target Name
RA
Search Box
Output
List of Targets

end dates:
2 hrs (UT)
Any
Any

Info

ALL NONE

EFOSC2/LaSilla EMM/LaSilla FORS1/VLT FORS2/VLT HAWK/VLT ISAAC/VLT NACO/VLT OMEGACAM/VST SOFI/LaSilla SUSI2/LaSilla TIMM2/LaSilla VIMOS/VLT WIRC/MAMBA

EMM/LaSilla FEROS/LaSilla FORS1/VLT FORS2/VLT HARPS/LaSilla KMOS/VLT ISAAC/VLT NACO/VLT SOFI/LaSilla

MAQ MASCOT WFCAM/UKIRT

POLARIMETRY POLARIMETRY

SCIENCE CALIB ACQUISITION

Mode Any User defined input:
Dataset ID
Orig Name
Release Date
OB Name
OB ID
Instrumental Setup
Exptime

ESO Archive / Observation Schedule

access to data

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



telbib → ESO archive

ESO Observation Schedule

Define new query

proID **088.A-0902(D), Serv**

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Mode	Service
Telescope	UT1-Antu
Allocated time	24 h
Programme Type	Normal
Instrument	FORS2
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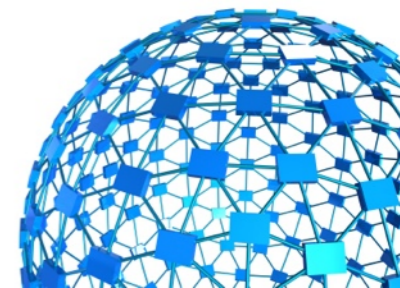
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YEAR	AUTHOR	TITLE	INSTRUMENTS	ACCESS TO DATA	FULLTEXT ADS
2013	Vieira, J. D. et al.	Dusty starburst galaxies in the early Universe as revealed by gravitational lensing	ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec	086.A-0793, 086.A-1002, 087.A-0815, 087.A-0968, 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. 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. A.
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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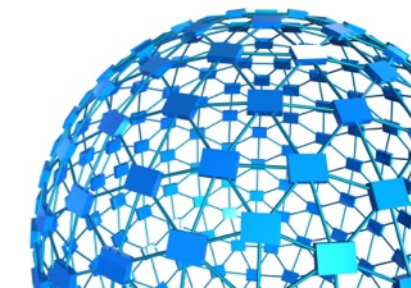
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Further information <http://www.eso.org/public/news/eso1313/> (Press Release)

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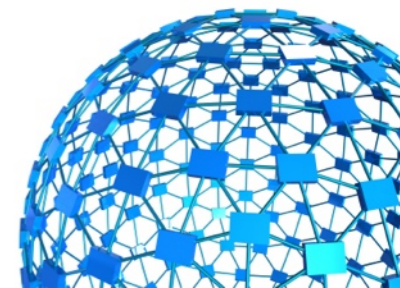
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Title: ALMA Redshifts of Millimeter-selected Galaxies from the SPT [Survey](#): The Redshift Distribution of Dusty Star-forming Galaxies

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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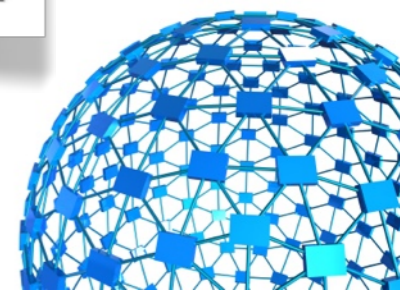
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DETAILED INFORMATION

Author(s) Weiß, 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.; Fa Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holder, G. P.; E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McIntyre, V.; M T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruel, J.; Ruhl, J A.; 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

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Citations (from ADS) 9 Altmetric 17

Further information <http://www.eso.org/public/news/eso1313/> (Press Release) → **access to ESO Press Release**

Instrument(s) ALMA_Bands, FORS2, LABOCA, SABOCA, Z-Spec

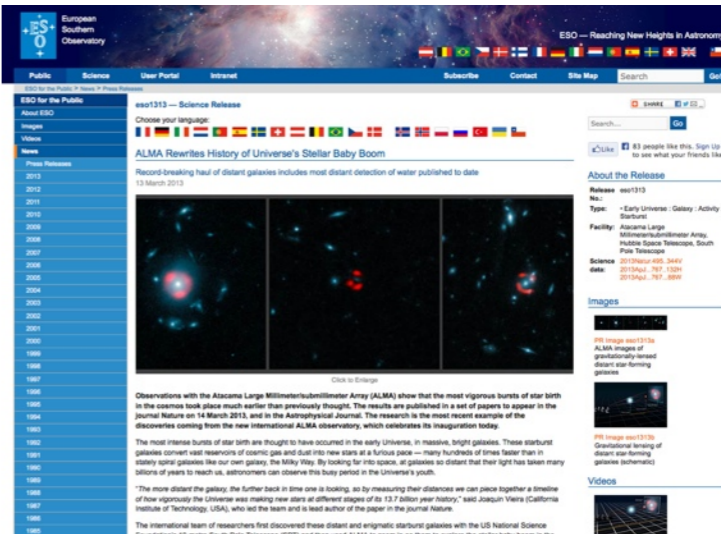
Telescope(s) ALMA, APEX, PressRelease, VLT

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
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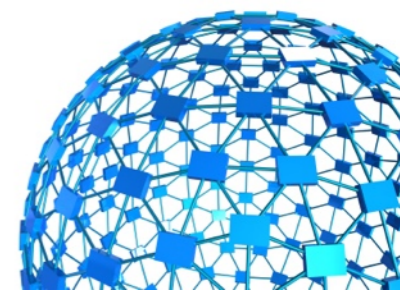
Type: • Early Universe : Galaxy : Activity : Starburst

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

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

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

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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 burning in stars. It is known to harbour (at least) two generations of stars, which still provide relevant information for the evolution theory. It is predicted that the AGB stars of the cluster NGC 6752 will evolve into a population of stars with a different chemical composition. We have performed 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 the study of the cluster evolution. We have no clear explanation for this observation.
Publication details	Nature, 2013, vol. 498, p. 198-200
BibCode	2013Natur.498..198C
Fulltext (via ADS)	ADS → fulltext
Citations (from ADS)	1 Altmeter 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

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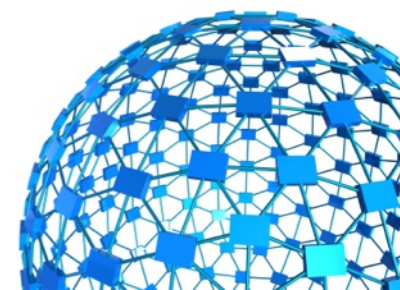
NGC 6752

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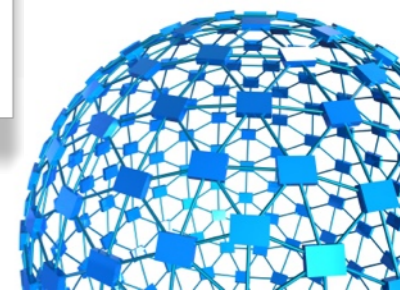
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2MASS	H	1.65	8.5' x 17.0'	1997-05-29	0.9" / pixel	FITS
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DETAILED INFORMATION

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, 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) will evolve through the AGB phase. Here we report that all of the second-generation stars in the globular cluster NGC 639 fail to reach the AGB phase. Through spectroscopic abundance measurements, we find that our sample has a low sodium abundance, indicating that they are exclusively first-generation stars. This implies that the cluster 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 58 → altmetric.com
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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- 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
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- 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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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
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Fulltext (via ADS)	ADS fulltext
Citations (from ADS)	1 Altmetric 58 altmetric.com
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) data

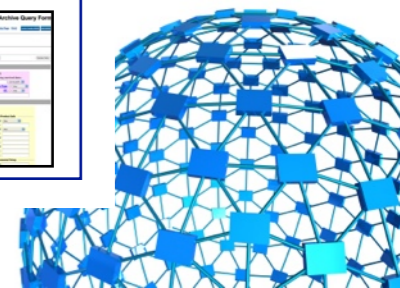
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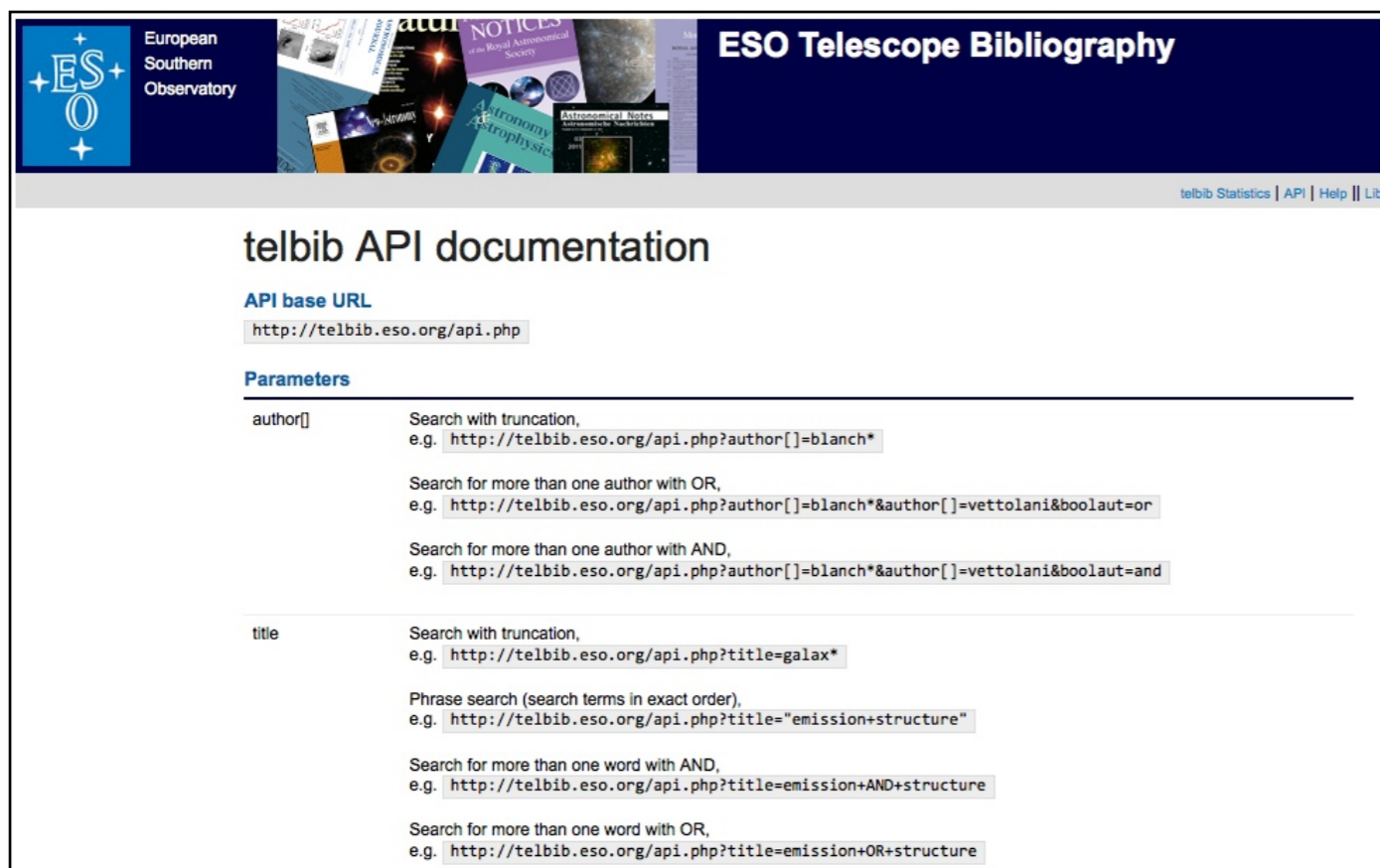
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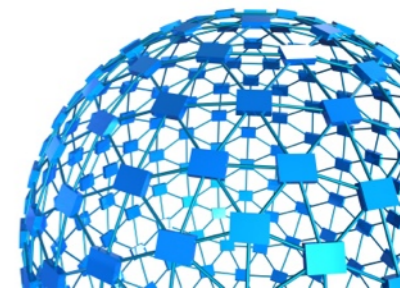
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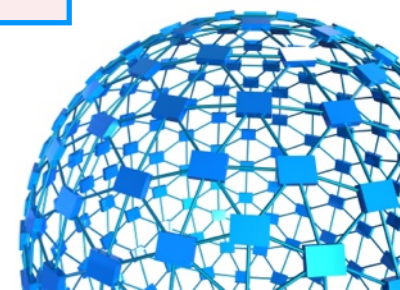
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	Search for more than one author with OR, e.g. <code>http://telbib.eso.org/api.php?author[]=blanch*&author[]=vettolani&boolaut=or</code>
	Search for more than one author with AND, e.g. <code>http://telbib.eso.org/api.php?author[]=blanch*&author[]=vettolani&boolaut=and</code>
title	Search with truncation, e.g. <code>http://telbib.eso.org/api.php?title=galax*</code>
	Phrase search (search terms in exact order), e.g. <code>http://telbib.eso.org/api.php?title="emission+structure"</code>
	Search for more than one word with AND, e.g. <code>http://telbib.eso.org/api.php?title=emission+AND+structure</code>
	Search for more than one word with OR, e.g. <code>http://telbib.eso.org/api.php?title=emission+OR+structure</code>

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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
  low-z sources, not have bright radio (S 843 MHz < 6 mJy) or far-infrared
  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 pl
  3.5. This finding is in contrast to the redshift distribution of radio-identi
  10%-15% of the population is expected to be at z > 3. We discuss the eff
  to that of models in the literature.
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The telbib network - identifiers

From	To	Identifier
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ESO arc/obs sched.	telbib	ESO program ID
ESO press releases	telbib	bibcode
telbib	ADS	bibcode
telbib	ESO arc/obs sched.	ESO program ID
telbib	ESO press releases	bibcode
telbib	CDS	object name
telbib	Altmetric.com	DOI (Digital Object Identifier)
anywhere	telbib	parameters defined by API





What's next?

- ▶ **ALMA:**
 - automated links to ALMA archive (when available)
- ▶ **ESO Observing Proposals Office:**
 - revised system under development; integrate telbib w/ new system
- ▶ **ESO archive data products:**
 - data products mostly from survey telescopes
 - proper linking between telbib and archive (proID? requestID?)
- ▶ **Challenges:**
 - growing number of publications and facilities that are tracked
 - increasing complexity of telbib system



The telbib network

Questions & suggestions:
Uta Grothkopf / Silvia Meakins
library@eso.org



API



What's next?

