



## **Herschel data-mining tools enabling Herschel-ALMA science**



**Pedro García-Lario,**  
Head of Herschel Science Centre & Herschel Mission Manager



# Herschel Science Centre WWW

<http://www.cosmos.esa.int/web/herschel/>



The screenshot shows a web browser window displaying the Herschel Science Centre website. The browser's address bar shows the URL [www.cosmos.esa.int/web/herschel/home](http://www.cosmos.esa.int/web/herschel/home). The website header includes navigation links for 'SRE SCIENCE MISSIONS', 'SCIENCE & TECHNOLOGY', 'EUROPEAN SPACE AGENCY', and 'SIGN IN'. The main content area features the 'herschel' logo and the ESA logo. A sidebar on the left contains a menu with items like 'Home', 'General Information', 'Documentation', 'Observations', 'Data Products', 'Data Processing', 'Publications', 'User Services', and 'Herschel Helpdesk', which is circled in red. The main text area has a heading 'HERSCHEL' followed by the subtitle 'EXPLORING THE FORMATION OF GALAXIES AND STARS' and its French equivalent. Below this is a welcome message and a paragraph about the mission's launch on 14 May 2009. To the right of the text is a blue-tinted image of a galaxy. At the bottom, there is a section for a symposium titled ''STAR FORMATION ACROSS SPACE AND TIME' SYMPOSIUM'.



## Herschel data mining tools (I)



- ✓ **Herschel Science Archive user interface**  
(covered by Eva Verdugo)

<http://www.cosmos.esa.int/web/herschel/science-archive>

- standard search by coordinates / target name (SIMBAD,NED) / instrument specific parameters, ...
- search by proposal name / proposal PI / OBSID
- search for user provided data products [UPDPs]
- postcard server – which provides access to standalone browse products
- all science observations are public since October 2013

*Has my favourite source been observed with Herschel?*



# Accessing the HSA User Interface



Herschel > Herschel Science Archive (HSA)

www.cosmos.esa.int/web/herschel/science-archive

EUROPEAN SPACE AGENCY | SCIENCE & TECHNOLOGY | SIGN IN

herchel | COSMOS HOME | SCIENCE MISSIONS | SCIENCE FACULTY | esa

Cosmos » Herschel » Data Products » Herschel Science Archive (HSA)

Home	
General Information	
Documentation	
Observations	
Data Products	Data Products Overview
Data Processing	Known Issues
Publications	Herschel Science Archive (HSA)
User Services	User Provided Data Products
Herschel Helpdesk	Postcard Gallery - browse HSA

## HERSCHEL SCIENCE ARCHIVE (HSA)

Herschel standard data products were systematically generated by the [Herschel Data Processing pipeline](#) and made available to the users through the Herschel Science Archive (HSA) typically 1-2 days after an observation had been executed.

Today all Herschel science data (~23,400 hours of observing, ~37,000 AORs) are publicly available, and there are science calibration observations (~2600 hours of observing, ~6600 AORs) available too. In addition "User Provided Data Products" (UPDPs) are also being

### Access to Herschel Data

To Access the HSA through the user interface please use the following link:

[Start the HSA User Interface \(HUI\) using Java Web Start](#)

To run the HSA as a desktop application, you must have Java Web Start enabled. First time you launch a Java Web start application? Please follow [these instructions](#). More details on what Java Web Start is can be found [here](#).

[HSA Troubleshooting FAQ](#) | [HSA News](#)

To access the HSA data **directly** through the Archive InterOperability System (HAIO) please use the [HAIO web interface](#). Please note



Search

Query Panels

Main Query Panel

Observation Id  Obs. List

Proprietary Status

Geometry Panel

Target Multiple Target

Shape

- Circle
- Box

Resolve Name  Equatorial  Galactic  Ecliptic

Centre Coordinates

Target   Radius

Instruments Query Panel

Instrument

- All
- HIFI
- PACS
- SPIRE
- SPIREPACS

Obs. Type

- HIFI
- Single Point Mapping
- Spectral Scan

Standard Data

PACS

- Pacs Photometer
- Range Spectroscopy
- Line Spectroscopy

SPIRE

- Photometer
- Spectrometer

SPIREPACS

- Parallel Mode

Instruments Advanced Query Panel

User Provided Data Products Panel (UPDP)

Log Console

Not Logged In







# Herschel science programmes



The screenshot shows the website [www.cosmos.esa.int/web/herschel/key-programmes](http://www.cosmos.esa.int/web/herschel/key-programmes). The page title is "HERSCHEL OBSERVING KEY PROGRAMMES". The left navigation menu includes: Home, General Information, Documentation, Observations, Data Products, Data Processing, Publications, User Services, and Herschel Helpdesk. The "Data Processing" menu item is circled in red, and its sub-menu is open, showing: Overview, Observing Log, Key Programmes, AO-1 Programmes (GT1 + OT1), AO-2 Programmes (GT2 + OT2), "Must-Do" Programmes, Filler Programmes, and Announcement of Opportunity (AO-2). The main content area has a sub-header "INTRODUCTION" and text describing the Key Programme AO process, mentioning that 21 programmes have been awarded observing time and that 11650 AORs form the current Reserved Observation List. Below this is a section for "GUARANTEED TIME KEY PROGRAMMES" with a list of programmes, including "ISM/STAR FORMATION (10)" and "KPGT\_aaheme1\_1".

Where can I find a full list of all approved Herschel programmes?



# Herschel science programmes



The screenshot shows the website [www.cosmos.esa.int/web/herschel/key-programmes](http://www.cosmos.esa.int/web/herschel/key-programmes). The page lists several key programmes under different categories:

- KPGT\_evandish\_1**  
"Water in Star-forming regions with Herschel (WISH)"  
(PI: Ewine van Dishoeck, 499.0 hours allocated)
- STARS (2)**
  - KPGT\_vbujarra\_1**  
"HIFISTARS: The physical and chemical properties of circumstellar environments around evolved stars"  
(PI: Valentín Bujarrabal, 214.6 hours allocated)
  - KPGT\_groenewegen\_1**  
"The circumstellar environment in post-main-sequence objects"  
(PI: Martin Groenewegen, 330.0 hours allocated)
- GALAXIES/AGNS (5)**
  - KPGT\_cwilso01\_1**  
"Physical Processes in the Interstellar Medium of Very Nearby Galaxies"  
(PI: Christine Wilson, 143.9 hours allocated)
  - KPGT\_smadde01\_1**  
"The ISM in Low Metallicity Environments: Bridging the Gap Between Local Universe and Primordial Galaxies"  
(PI: Suzanne Madden, 104.9 hours allocated)
  - KPGT\_rguesten\_1**  
"The HEXGAL (Herschel EXtraGALactic) Key Project: Physical and Chemical Conditions of the ISM in Galactic Nuclei"  
(PI: Rolf Güsten, 326.8 hours allocated)
  - KPGT\_esturm\_1**  
"Star formation and activity in infrared bright galaxies at  $0 < z < 1$ "  
(PI: Eckhard Sturm, 295.5 hours allocated)
  - KPGT\_seales01\_1**  
"The Herschel Reference Survey"  
(PI: Stephen Eales, 112.6 hours allocated)
- COSMOLOGY (3)**
  - KPGT\_soliver\_1**  
"The Herschel Multi-tiered Extragalactic Survey (HerMES): Measuring the Infrared Galaxy Formation History of the Universe"  
(PI: Seb Oliver, 900.0 hours allocated)



# Herschel science programmes



The image shows a screenshot of a web browser displaying the Herschel key-programmes page. The browser address bar shows [www.cosmos.esa.int/web/herschel/key-programmes](http://www.cosmos.esa.int/web/herschel/key-programmes). The page features a navigation menu on the left with the following items: Home, General Information, Documentation, Observations, Data Products, Data Processing, Publications, User Services, and Herschel Helpdesk. The main content area displays the title "MESS - Mass-loss of Evolved StarS" and a navigation bar with links for Home, Docs, Meetings, Links, and Wiki. The text on the page includes:

**What is this MESS?**

MESS is a Guaranteed Time Key Programme for the [Herschel Space Observatory](#).

**"The circumstellar environment in post-main-sequence objects"**

**Proposal ID: KPGT\_mgroen01\_1**

Martin Groenewegen, K.U. Leuven, Mike Barlow, University College London, Franz Kerschbaum, University of Vienna, Joris Blommaert, Institute for Astronomy, KU Leuven, Pedro Garcia Lario, ESA-ESAC, J. Cernicharo, CSIC, Spain, Oliver Krause, Max-Planck-Institut fuer Astronomie, Angela Baier, Univ. Vienna, Jeroen Bouwman, Max-Planck-Institut fuer Astronomie, Martin Cohen, Berkeley, USA, Leen Decin, K.U. Leuven, Thomas Henning, Max-Planck-Institut fuer Astronomie, Damien Hutsemekers, IAGL, Rob Iveson, UK ATC, Royal Observatory, Edinburgh, Djazia Ladjal, K.U. Leuven, Tanya Lim, Rutherford Appleton Laboratory, Goeran Olofsson, Stockholm University, Thomas Posch, Univ. Vienna, Gregor Rauw, IAGL, Pierre Royer, K.U. Leuven, Bruce Sibthorpe, Cardiff University, Bruce Swinyard, Rutherford Appleton Laboratory, Toshiya Ueta, Univ. Denver, Bart Vandenbussche, K.U. Leuven, Griet Van de Steene, Royal Observatory Brussels, Hans Van Winckel, K.U. Leuven, Eva Verdugo, ESA-ESAC, Christoffel Waelkens, K.U. Leuven

Mass-loss is one of the most fundamental properties of post-main sequence evolution. The mass-loss process leads to the formation of circumstellar shells containing dust and molecules. Although the mass-loss phenomenon has been studied since





## Herschel data mining tools (II)



### ✓ **Herschel Observing Log**

<http://herschel.esac.esa.int/logrepgen/observationlist.do>

- useful for other searches (e.g. by science category), which are not (yet) possible in HSA

*Has my favourite science topic been covered by any Herschel observing programme?*



# Herschel Observing Log



www.cosmos.esa.int/web/herschel/ao1-programmes

SRE SCIENCE MISSIONS SCIENCE & TECHNOLOGY EUROPEAN SPACE AGENCY SIGN IN

herschel

Cosmos » Herschel » Observations » AO-1 Programmes (GT1 + OT1)

## HERSCHEL FIRST IN-FLIGHT ANNOUNCEMENT OF OPPORTUNITY (AO1) PROGRAMMES

### INTRODUCTION

The first in-flight Announcement of Opportunity (AO1) was issued on 25 February 2010, with separate deadlines for guaranteed time (GT1) proposals.

This page provides a list of accepted [Guaranteed Time \(GT1\)](#) and [Open Time \(OT1\)](#) proposals sorted by Science Category. Click on the text of the abstracts. These observations cannot be duplicated by future programmes. If you want to check if observations are already covered by one or more existing AORs, you can easily do so by using the [Herschel Search Tool](#) to find out.

### GUARANTEED TIME (GT1) PROGRAMMES

The (GT1) part of the first (AO1) in-flight AO a total of 33 Programmes were proposed and accepted (with some allocated observing time for these observing programmes contains 1102 AORs and amounts to 554.7 hours.

Home	
General Information	
Documentation	
Observations	Overview
Data Products	Observing Log
Data Processing	Key Programmes
Publications	AO-1 Programmes (GT1 + OT1)
User Services	AO-2 Programmes (GT2 + OT2)
Herschel Helpdesk	"Must-Do" Programmes
	Filler Programmes
	Announcement of Opportunity (AO-2)
	ISM/STAR FORMATION (8)
	GT1_aabergel_4
	"Probing CH and CH+ in the diffuse interstellar medium using concerted SPIRE / HIFI observations" (PI: Alain Abergel, 2.0 hours allocated)

# Observing Log

## Query observations

OD From:  OD To:

Target:  Proposal:

AOT:  Subinstrument:

Obs. Id:  AOR label:

Duration (min):  Duration (max):

Start Time From:  (e.g. 2010-09-05T16:30:00Z) Start Time To:  (e.g. 2010-09-05T16:30:00Z)

SPG version:  QC State:

Science Category:

NAIF Id:

Observations per page: 50

**38,208 items found, displaying 1 to 50. [First/Prev] 1, 2, 3, 4, 5, 6, 7, 8 [Next/Last]**

OD	Target	RA	DEC	Proposal	AOT	Duration	Start time	Obs. Id	AOR Label	SPG version	QC State
1446	OH 32.8-0.3	18h52m22.190s	-0d14m13.90s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T07:40:58Z	1342271266	HStars-Set08 - oh32	SPG v12.1.0	PASSED
1446	IRAS 18488-0107	18h51m26.210s	-1d03m51.80s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T07:14:24Z	1342271265	HStars-Set08 - IRAS18488	SPG v12.1.0	PASSED
1446	OH 30.1-0.7	18h48m41.910s	-2d50m28.30s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T06:47:50Z	1342271264	HStars-Set08 - OH30.1	SPG v12.1.0	PASSED
1446	OH 30.7+0.4	18h45m53.090s	-1d46m48.00s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T06:21:16Z	1342271263	HStars-Set08 - oh30.7	SPG v12.1.0	PASSED
1446	irc+10216	9h47m57.410s	+13d16m43.60s	DDT_ichernich_10	HifiPoint	262	2013-04-29T05:53:28Z	1342271262	TV_HNC_12U-epoch_4	SPG v12.1.0	PASSED
1446	irc+10216	9h47m57.410s	+13d16m43.60s	DDT_ichernich_10	HifiPoint	286	2013-04-29T05:46:55Z	1342271261	TV_HNC_12L-	SPG v12.1.0	PASSED

# Observing Log

## Query observations

OD From:  OD To:   
 Target:  Proposal:   
 AOT: 

- HifiSpectralScan
- HifiMapping
- HifiPoint
- PacsLineSpec

 Subinstrument: 

- P\_SPEC
- P\_PHOT
- S\_SPEC
- S\_PHOT

  
 Obs. Id:  AOR label:   
 Duration (min):  Duration (max):   
 Start Time From:  (e.g. 2010-09-05T16:30:00Z) Start Time To:  (e.g. 2010-09-05T16:30:00Z)  
 SPG version:  QC State:   
 Science Category: 

- Local Group galaxies
- Low-z galaxies
- Nearby galaxies
- Planets
- Satellites

 NAIF Id:

Observations per page: 50

**Search observations** Clear

38,208 items found, displaying 1 to 50. [First/Prev] 1, 2, 3, 4, 5, 6, 7, 8 [Next/Last]

OD	Target	RA	DEC	Proposal	AOT	Duration	Start time	Obs. Id	AOR Label	SPG version	QC State
1446	OH 32.8-0.3	18h52m22.190s	-0d14m13.90s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T07:40:58Z	1342271266	HStars-Set08 - oh32	SPG v12.1.0	PASSED
1446	IRAS 18488-0107	18h51m26.210s	-1d03m51.80s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T07:14:24Z	1342271265	HStars-Set08 - IRAS18488	SPG v12.1.0	PASSED
1446	OH 30.1-0.7	18h48m41.910s	-2d50m28.30s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T06:47:50Z	1342271264	HStars-Set08 - OH30.1	SPG v12.1.0	PASSED
1446	OH 30.7+0.4	18h45m53.090s	-1d46m48.00s	DDT_kjusttan_3	HifiPoint	1487	2013-04-29T06:21:16Z	1342271263	HStars-Set08 - oh30.7	SPG v12.1.0	PASSED
1446	irc+10216	9h47m57.410s	+13d16m43.60s	DDT_jcernich_10	HifiPoint	262	2013-04-29T05:53:28Z	1342271262	TV_HNC_12U-epoch_4	SPG v12.1.0	PASSED

# Observing Log

## Query observations

OD From:  OD To:

Target  Proposal

AOT 

- HifiSpectralScan
- HifiMapping
- HifiPoint
- PacsLineSpec

Subinstrument 

- P\_SPEC
- P\_PHOT
- S\_SPEC
- S\_PHOT

Obs. Id  AOR label

Duration (min):  Duration (max):

Start Time From:  (e.g. 2010-09-05T16:30:00Z) Start Time To:  (e.g. 2010-09-05T16:30:00Z)

SPG version  QC State

Science Category 

- Kuiper Belt bodies
- Local Group galaxies
- Low-z galaxies
- Nearby galaxies

NAIF Id

Observations per page: 50

Search observations Clear

3,327 items found, displaying 51 to 100. [First/Prev] 1, 2, 3, 4, 5, 6, 7, 8 [Next/Last]

OD	target	RA	DEC	Proposal	AOT	Duration	Start time	Obs. Id	AOR Label	SPG version	QC State
1441	UGC 04256	8h10m15.180s	+33d57m23.90s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T02:40:31Z	1342270845	PPhoto-070-050 - UGC 04256	SPG v12.1.0	PASSED
1441	UGC 04622	8h50m20.180s	+41d17m21.90s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T03:07:43Z	1342270847	PPhoto-100-040 - UGC 04622	SPG v12.1.0	PASSED
1441	UGC 04622	8h50m20.180s	+41d17m21.90s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T03:20:47Z	1342270848	PPhoto-100-130 - UGC 04622	SPG v12.1.0	PASSED
1441	UGC 04622	8h50m20.180s	+41d17m21.90s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T03:33:51Z	1342270849	PPhoto-070-140 - UGC 04622	SPG v12.1.0	PASSED
1441	UGC 04622	8h50m20.180s	+41d17m21.90s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T03:46:55Z	1342270850	PPhoto-070-050 - UGC 04622	SPG v12.1.0	PASSED
1441	UGC 04555	8h44m08.270s	+34d43m02.10s	OT2_kwestfal_2	PacsPhoto	718	2013-04-24T04:15:05Z	1342270852	PPhoto-100-040 - UGC	SPG v12.1.0	PASSED





## Herschel data mining tools (III)



### ✓ **Herschel catalogues in VizieR**

<http://vizier.u-strasbg.fr/viz-bin/VizieR>

- search for added value products – e.g. photometric fluxes, SEDs,...
- currently, more than 67 catalogues containing hundred thousands entries, including the Herschel Observing Log (VI/139), with links to postcards and associated standalone browse products
- more are coming... (see talks later in this workshop)

*What kind of added value information is available on my favourite astronomical source provided by Herschel?*



# Herschel catalogues in VizieR



The screenshot shows the VizieR web interface. The browser address bar is `vizier.u-strasbg.fr/viz-bin/VizieR`. The navigation menu includes Portal, Simbad, VizieR, Aladin, X-Match, Other, and Help. The main heading is "VizieR Service".

**Search Criteria**

Preferences: max: 50, HTML Table, All columns, Compute, Mirrors: CDS, France

**Find catalogs among 13491 available**

Search input: `Clear` `Herschel` `Find...` Expand search

*?* Catalog, author's name, word(s) from title, description, etc. e.g.: AGN, Veron, I/239, or bibcodes...

▶ Search for catalogs by column descriptions (UCD) *?*  
▶ Search for catalogs containing additional data

**Search by Position across 14133 tables**

Target Name (resolved by [Sesame](#)) or Position: `Clear` `J2000` Target dimension: `2` `arcmin` `Go!`

Radius  Box size

[More about VizieR](#)

Wavelength	Mission	Astronomy
Radio	IRAS	Abundances
IR	GALEX	Ages
optical	GINGA	AGN
UV	GRANAT	Associations
EUV	HEAD	Atomic_Data
X-ray	Herschel	Binaries:cataclysmic
Gamma-ray	Hipparcos	Binaries:eclipsing
	HST	

**~ 5 matching catalogs** `Find Catalogs`

**new** Go to [the VizieR main page](#) for documentations or other browse modes

## Tools related to VizieR

- [Photometry viewer](#) : Plot photometry (sed) including all VizieR
- [TAP VizieR](#) : query VizieR using ADQL (a SQL extension dedicated for astronomy)
- [CDS cross-match service](#) : fast cross-identification between any 2 tables, including VizieR catalogues, SIMBAD



# Herschel catalogues in VizieR



Browser tabs: Herschel > Herschel first i... x, Herschel Helpdesk - Powe... x, http://vizier.....fr/index.gml x, VizieR x

Address bar: vizier.u-strasbg.fr/viz-bin/VizieR-2

Navigation: Portal, Simbad, **VizieR**, Aladin, X-Match, Other, Help

## Catalog Selection Page

67 catalogs found

Search Criteria: Keywords: Herschel

Preferences: max: 50, HTML Table, All columns, Compute

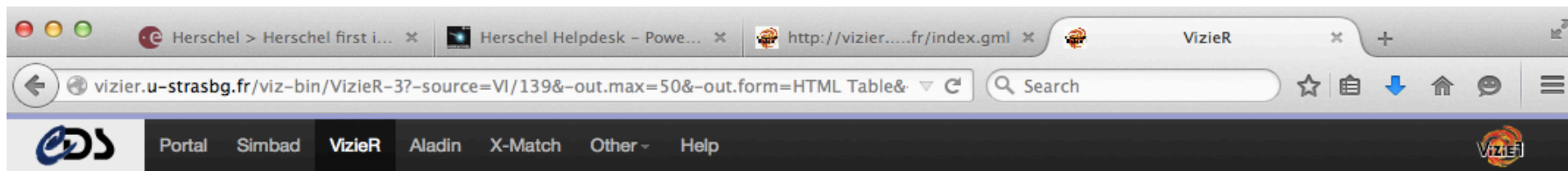
Mirrors: CDS, France

Buttons: Reset All, Show table details, Query selected Catalogs

ALL	Rad	IR	opt	UV	X	Y	Count	Description	Year	Journal	ReadMe+ftp	Image
<input type="checkbox"/>							1M	Herschel Multi-tiered Extragalactic Survey (Oliver+, 2012)	2012	MNRAS.424.1614O	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							134k	PACS Evolutionary Probe (PEP-DR1) catalogs (Lutz+, 2011)	2011	A&A...532A..90L	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							116k	HeViCS. SPIRE point-source catalogs (Pappalardo+, 2015)	2015	A&A...573A.129P	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							82k	HERschel HERITAGE in Magellanic Clouds (Meixner+, 2013)	2013	AJ....146...62M	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							78k	Herschel key program Heritage (Seale+, 2014)	2014	AJ....148..124S	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							37k	Herschel Observation Log (Herschel Science Centre, 2013)	2013	Cat.6139...0H	<a href="#">ReadMe+ftp</a> <a href="#">image/jpg</a>	
<input type="checkbox"/>							32k	Herschel Stripe 82 survey (HerS) first catalog (Viero+, 2014)	2014	ApJS..210...22V	<a href="#">ReadMe+ftp</a> <a href="#">image/fits</a>	
<input type="checkbox"/>							11k	VVDS-Herschel: Starbursts and AGN (Lemaux+, 2014)	2014	A&A...572A..90L	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							6k	Herschel-ATLAS Science Demonstration Catalog (Rigby+, 2011)	2011	MNRAS.415.2336R	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>							5k	325MHz GMRT survey of Herschel-ATLAS/GAMA fields (Mauch+, 2013)	2013	MNRAS.435..650M	<a href="#">ReadMe+ftp</a>	
<input type="checkbox"/>								GOODS-Herschel North and South catalogues (Elbaz+. 2011)	2011	A&A...533A.119E	<a href="#">ReadMe+ftp</a>	



# Access to Herschel Observing Log in VizieR



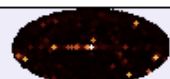
## VizieR Search Page

**Search Criteria**  
[Save in CDSportal](#)  
 Keywords  Back  
 VI/139  
 Tables  Add  
 VI/139  
 ..herschel  
  
 Choose

**Preferences**  
 max: 50  
 HTML Table  
 All columns  
 Compute  
 Distance  $\rho$   
 Position angle  $\theta$   
 Distance (x,y)  
 Galactic  
 J2000  
 B1950  
 Ecl. J2000  
  
 Sort by Distance  
 + order -  
 No sort  
 Position in:  
 Sexagesimal

**Simple Target** **List Of Targets** [Fast Xmatch with large catalogs or Simbad](#)

Target Name (resolved by [Sesame](#)) or Position:  J2000  2  arcmin  
 Radius  Box size

Radial IR X Y  Herschel Observation Log (Herschel Science Centre, 2013) [2013yCat.6139...0H](#) [ReadMe+ftp](#)  
 VI/139 [image/jpg](#) [Similar Catalogs](#)   
 1.VI/139/herschel The Herschel Observation Log (37093 rows)  
*(see also the [postcard server](#))*

**Simple Constraint** **List Of Constraints**

Query by [Constraints](#) applied on Columns (Output Order:  +  -)

Show	Sort	Column	Clear	Constraint	Explain (UCD)
<input type="checkbox"/>	<input type="radio"/>	recno	<input type="text"/>		Record number assigned by the VizieR team. Should Not be used for identification. ( <a href="#">meta.record</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	OD	<input type="text"/>		[120/1446] Herschel Operational Day ( <a href="#">meta.note</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Target	<input type="text"/>	(char)	Target Name, as given by the observer ( <a href="#">meta.id;obs.observer</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	RAJ2000	<input type="text"/>	"h:m:s" <sup>(n)</sup>	Hour of Right Ascension (J2000) ( <a href="#">pos.eq.ra;meta.main</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	DEJ2000	<input type="text"/>	"d:m:s" <sup>(n)</sup>	Degree of Declination (J2000) ( <a href="#">pos.eq.dec;meta.main</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Proposal	<input type="text"/>	(char)	Name of the proposal ( <a href="#">meta.id;obs</a> )
<input type="checkbox"/>	<input type="radio"/>	AOT	<input type="text"/>	(char)	Astronomical observing template ( <a href="#">Note 1</a> ) ( <a href="#">instr.setup</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Dur	<input type="text"/>	$\underline{s}$	[24/64498] Total duration of the observation ( <a href="#">time.expo</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Start	<input type="text"/>	$\underline{s}$	<sup>(n)</sup> Start time of the observation (UTC; YYYY-MM-DDThh:mm:ss) ( <a href="#">time.epoch</a> )





# Access to Herschel data from VizieR



Browser tabs: Herschel > Herschel first i... | Herschel Helpdesk - Powe... | http://vizier.....fr/index.gml | VizieR

Address bar: vizier.u-strasbg.fr/viz-bin/VizieR-4

Navigation: Portal | Simbad | **VizieR** | Aladin | X-Match | Other - | Help

## VizieR Result Page

Send to VO tools

**Search Criteria**  
Save in CDSportal

Keywords: VI/139 [Back]

Tables: VI/139 ..herschel [Add]

Constraints: [Choose] [Modify Query]

Preferences: max: 50 [HTML Table] [All columns] [Compute] [Submit]

Mirrors: CDS, France

- Show the target form
- Show constraint information

The 2 columns in *color* are computed by VizieR, and are *not part of the original data*.

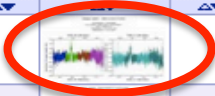
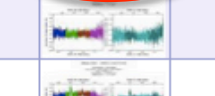
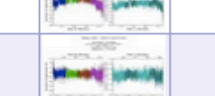
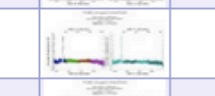
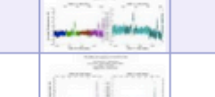
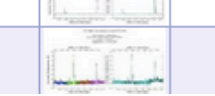

Note: (see also the [postcard server](#))

[VI/139/herschel](#) [Herschel Observation Log \(Herschel Science Centre, 2013\)](#) [2013yCat.6139...0H](#) [ReadMe+ftp](#)

[Post annotation](#) The Herschel Observation Log (37093 rows)



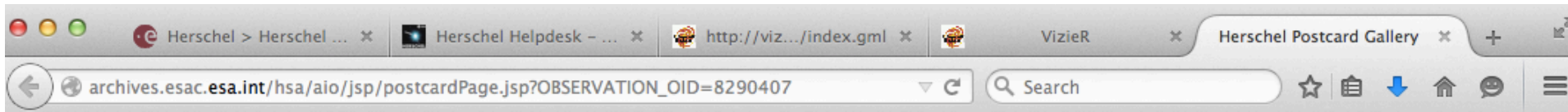
start AladinLite

Full	RAJ2000 "h:m:s"	DEJ2000 "d:m:s"	OD	Target	RAJ2000 "h:m:s"	DEJ2000 "d:m:s"	Proposal	Dur	Start	PACS	HIFI	SPIRE
<u>1</u>	18 52 22.19	-00 14 13.9	1446	OH 32.8-0.3	18 52 22.19	-00 14 13.9	<a href="#">DDT_kjusttan_3</a>	1487	2013-04-29T07:40:58			
<u>2</u>	18 51 26.21	-01 03 51.8	1446	IRAS 18488-0107	18 51 26.21	-01 03 51.8	<a href="#">DDT_kjusttan_3</a>	1487	2013-04-29T07:14:24			
<u>3</u>	18 48 41.91	-02 50 28.3	1446	OH 30.1-0.7	18 48 41.91	-02 50 28.3	<a href="#">DDT_kjusttan_3</a>	1487	2013-04-29T06:47:50			
<u>4</u>	18 45 53.09	-01 46 48.0	1446	OH 30.7+0.4	18 45 53.09	-01 46 48.0	<a href="#">DDT_kjusttan_3</a>	1487	2013-04-29T06:21:16			
<u>5</u>	09 47 57.41	+13 16 43.6	1446	irc+10216	09 47 57.41	+13 16 43.6	<a href="#">DDT_jcernich_10</a>	262	2013-04-29T05:53:28			
<u>6</u>	09 47 57.41	+13 16 43.6	1446	irc+10216	09 47 57.41	+13 16 43.6	<a href="#">DDT_jcernich_10</a>	286	2013-04-29T05:46:55			
<u>7</u>	09 47 57.41	+13 16 43.6	1446	irc+10216	09 47 57.41	+13 16 43.6	<a href="#">DDT_jcernich_10</a>	150	2013-04-29T05:35:33			
<u>8</u>	09 47 57.41	+13 16 43.6	1446	irc+10216	09 47 57.41	+13 16 43.6	<a href="#">DDT_jcernich_10</a>	166	2013-04-29T05:31:21			



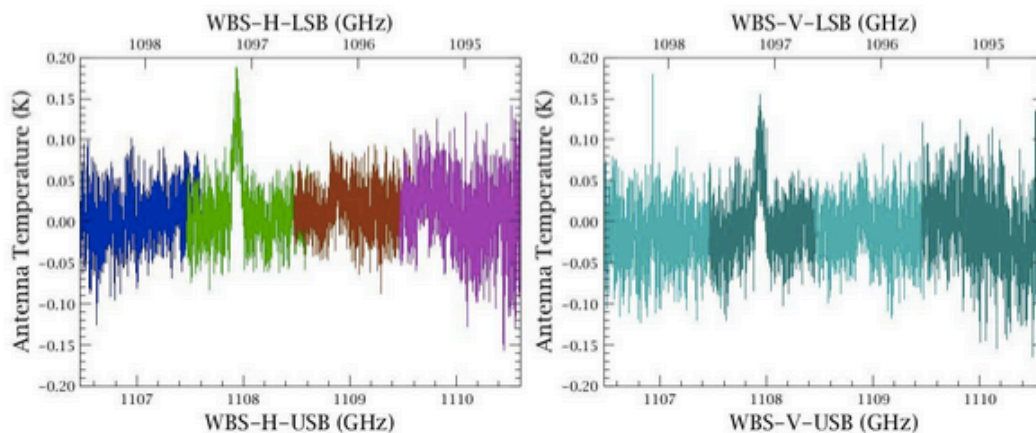


# Access to Herschel data from VizieR



HStars-Set08 - oh32 (1342271266)

Observing Mode = DBS fastChop  
Spectrometer = HRS-H HRS-V WBS-H WBS-V  
Source = OH 32.8-0.3  
Requested RA = 18h 52m 22.19s  
Requested Dec = 0° 14' 13.90"



<b>Observation:</b>	<b>1342271266</b>
Instrument:	HIFI
Mode:	HifiPointModeDBS
Target:	OH 32.8-0.3
RA:	18h52m22s
DEC:	-0d14m14s
OD Number:	1446
Duration:	1533s
Proposal Id:	DDT_kjusttan_3





## Herschel data mining tools (IV)



### ✓ **Herschel Publications Tool**

<http://herschel.esac.esa.int/hpt>

- search for science results derived from Herschel observations
- only refereed papers
- query by author, journal, affiliation, science area, abstract keywords,...
- with links to full text through ADS and standalone browse products through linked postcards

*Has this particular Herschel observation / science programme resulted in a refereed publication?*

*What are the existing refereed publications covering my favourite target / science topic?*

*Give me all refereed publications in which Joe Astronomer is co-author*



# Herschel scientific publications

<http://www.cosmos.esa.int/web/herschel/scientific-publications>



HERSCHEL SCIENTIFIC PUBLICATIONS

INTRODUCTION

Scientific results based on Herschel observations are de facto communicated via publications in the refereed scientific literature. This webpage provides a listing of published refereed Herschel papers, [the applicable rules and guidelines](#) for publishing can be found elsewhere.

HERSCHEL PUBLICATIONS LIST

The list of publications provided here is generated by using the [ADS](#) Astronomy and Astrophysics searches followed by manual "using the criteria listed below. It is updated typically twice a month and maintained by the Herschel Project [back can be provided](#). In particular, please report papers that are missing in the list, should you come across any.

ed in two complementary ways, in the standard ADS "short list format" (you can use ADS to generate other a web interface that provides additional functionality in terms of searching and sorting. (The ADS listing is the face database is regenerated daily based on the ADS listing.)

**ADS format publications list**

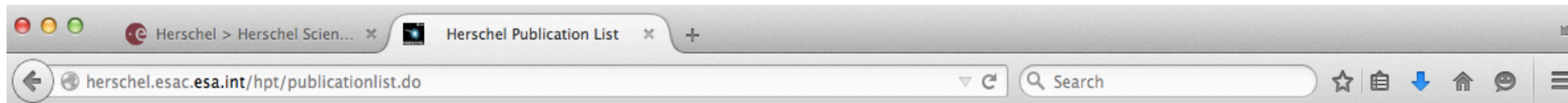
**Web interface publications list**

WHAT PAPERS ARE LISTED?



# Herschel publications tool

<http://www.herschel.esac.esa.int/hpt>



## Publication List

Last update: 2015.04.13 T 09:37:02 CEST

Filter

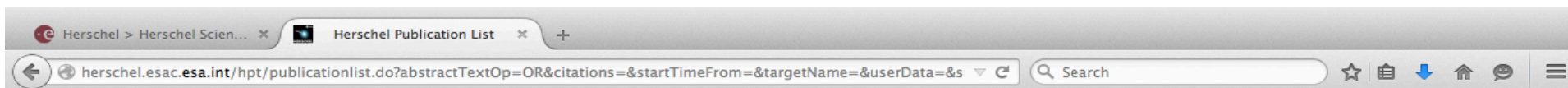
Number of publications: 1363

BibCode	Status	Title	Authors	Journal	Date	Citations	#Obs
<a href="#">2015Natur.519..436T</a>	DONE	Wind from the black-hole accretion disk driving a molecular outflow in an active galaxy	Tombesi F., Meléndez M., Veilleux S., Reeves J. N., González-Alfonso E., Reynolds C. S.	Nature	03/2015	2	1
<a href="#">2015MNRAS.449L..82G</a>	DONE	The subsurface of Pluto from submillimetre observations	Greaves J. S., Whitelaw A. C. M., Bendo G. J.	Monthly Notices of the Royal Astronomical Society	04/2015	0	9
<a href="#">2015MNRAS.449.2498I</a>	PENDING	A multiwavelength exploration of the C II/IR ratio in H-ATLAS/GAMA galaxies out to $z = 0.2$	Ibar E., Lara-López M. A., Herrera-Camus R., Hopwood R., Bauer A., Ivison R. J., Michałowski M. J., Dannerbauer H., van der Werf P., Riechers D., Bourne N., Baes M., Valtchanov I., Dunne L., Verma A., Brough S., Cooray A., De Zotti G., Dye S., Eales S., Furlanetto C., Maddox S., Smith M., Steele O., Thomas D., Valiante E.	Monthly Notices of the Royal Astronomical Society	05/2015	0	0
<a href="#">2015MNRAS.449.2274H</a>	DONE	Systematic characterization of the Herschel SPIRE Fourier Transform Spectrometer	Hopwood R., Polehampton E. T., Valtchanov I., Swinyard B. M., Fulton T., Lu N., Marchili N., van der Wiel M. H. D., Benielli D., Imhof P., Baluteau J.-P., Pearson C., Clements D. L., Griffin M. J., Lim T. L., Makiwa G., Naylor D. A., Noble G., Puga E., Spencer L. D.	Monthly Notices of the Royal Astronomical Society	05/2015	0	423
<a href="#">2015MNRAS.449.1309G</a>	DONE	The nuclear and extended infrared emission of the Seyfert galaxy NGC 2992 and the interacting system Arp 245	García-Bernete I., Ramos Almeida C., Acosta-Pulido J. A., Alonso-Herrero A., Sánchez-Portal M., Castillo M., Pereira-Santaella M., Esquej P., González-Martín O., Díaz-Santos T., Roche P., Fisher S., Pović M., Pérez García A. M., Valtchanov I., Packham C., Levenson N. A.	Monthly Notices of the Royal Astronomical Society	05/2015	0	5



# Herschel publications tool

<http://www.herschel.esac.esa.int/hpt>



## Publication List

Last update: 2015.04.13 T 09:37:02 CEST

Filter

Publication criteria

Bib Code

Title   AND

**Author Surnames**

Amiation

Journal: Any

Min citations:

Publication Date:  =>

Observation Ids:

Status: Any

User Reduced Data: Spectra, Catalog, Images

HIPE version:

Comments:

Abstract:   AND

Search publications Clear

Number of publications: 30

Observation criteria

OD range:  =>

Target:

Proposal:   AND  OR

HifFS HifiMapping HifiPoint PacsLineSpec PacsPhoto	PACS SPIRE PARALLEL HIFI
--	-----------------------------------

AOT / Instrument / SubInstrument

P_SPEC P_PHOT P_ENG S_SPEC S_PHOT
---

Duration (min/max):  =>

Start/End Time Range:  =>

Science Area & Category

Solar System Interstellar Medium/Star Formation Stars & Stellar Evolution Galaxies/AGNs Cosmology	Active galaxies/ULGs/QSOs Asteroids Brown Dwarfs/Very Low-Mass Stars Circumstellar/Debris disks Comets
---	--

View observations filtered

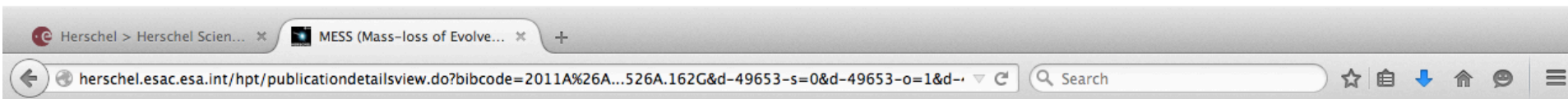
BibCode	Status	Title	Authors	Journal	Date	Citations	#Obs
2014ApJ...796L.21C	IN_PROGRESS	Discovery of Time Variation of the Intensity of Molecular Lines in IRC+10216 in the Submillimeter and Far-Infrared Domains	Cernicharo J., Teyssier D., Quintana-Lacaci G., Daniel F., Agúndez M., Velilla-Prieto L., Decin L., Guélin M., Encrenaz P., García-Lario P., de Beck E., Barlow M. J., Groenewegen M. A. T., Neufeld D., Pearson J.	The Astrophysical Journal	11/2014	4	337
2011A&A...526A.162G	DONE	MESS (Mass-loss of Evolved StarS), a Herschel key program	Groenewegen M. A. T., Waelkens C., Barlow M. J., Kerschbaum F., García-Lario P., Cernicharo J., Blommaert J. A. D. L., ...	Astronomy and Astrophysics	02/2011	62	152





# Herschel publications tool

<http://www.herschel.esac.esa.int/hpt>



## Publication details

### MESS (Mass-loss of Evolved StarS), a Herschel key program

Groenewegen M. A. T., Waelkens C., Barlow M. J., Kerschbaum F., Garcia-Lario P., Cernicharo J., Blommaert J. A. D. L., Bouwman J., Cohen M., Cox N., Decin L., Exter K., Gear W. K., Gomez H. L., Hargrave P. C., Henning T., Hutsemekers D., Ivison R. J., Jorissen A., Krause O., Ladjal D., Leeks S. J., Lim T. L., Matsuura M., Nazé Y., Olofsson G., Ottensamer R., Polehampton E., Posch T., Rauw G., Royer P., Sibthorpe B., Swinyard B. M., Ueta T., Vamvatira-Nakou C., Vandenbussche B., van de Steene G. C., van Eck S., van Hoof P. A. M., van Winckel H., Verdugo E., Wesson R.

#### Journal

Astronomy and Astrophysics 526 AA162-

#### Abstract

MESS (Mass-loss of Evolved StarS) is a guaranteed time key program that uses the PACS and SPIRE instruments on board the Herschel space observatory to observe a representative sample of evolved stars, that include asymptotic giant branch (AGB) and post-AGB stars, planetary nebulae and red supergiants, as well as luminous blue variables, Wolf-Rayet stars and supernova remnants. In total, of order 150 objects are observed in imaging and about 50 objects in spectroscopy. This paper describes the target selection and target list, and the observing strategy. Key science projects are described, and illustrated using results obtained during Herschel's science demonstration phase. Aperture photometry is given for the 70 AGB and post-AGB stars observed up to October 17, 2010, which constitutes the largest single uniform database of far-IR and sub-mm fluxes for late-type stars. Herschel is an ESA space observatory with science instruments provided by European-led Principal Investigator consortia and with important participation from NASA. Appendices and Tables 1 and 2 are only available in electronic form at <http://www.aanda.org>

**BibCode:** [2011A&A...526A.162G](#)

**DOI:** [10.1051/0004-6361/201015829](#)

**Citations:** 62

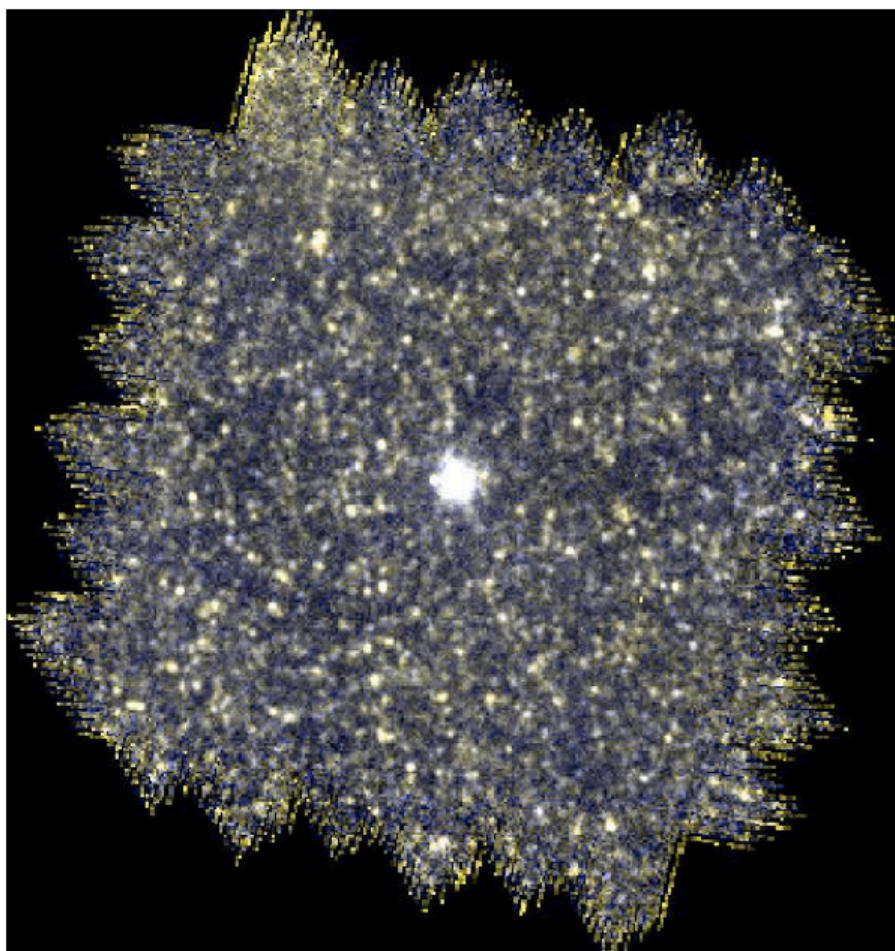
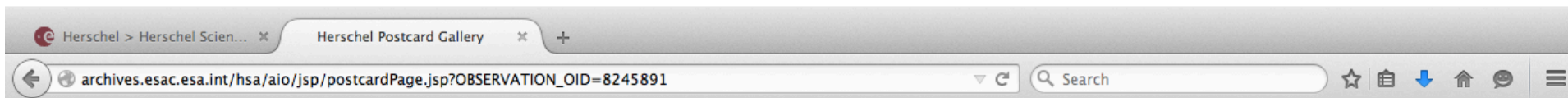
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OD	Target	RA	DEC	Proposal	AOT	Duration	Start time	Obs. Id	AOR Label	SPG version	QC State	Postcard
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497	S CAS	1h19m41.970s	+72d36m39.30s	KPGT_mgroen01_1	PacsPhoto	519	2010-09-22T22:28:40Z	1342205040	PPhoto-S_CAS_45	SPG v12.1.0	PASSED	



# Herschel publications tool

<http://www.herschel.esac.esa.int/hpt>



<b>Observation:</b>	<b>1342206689</b>
Instrument:	SPIRE
Mode:	SpirePhotoLargeScan
Target:	CIT 6
RA:	10h16m02s
DEC:	30d34m10s
OD Number:	522
Duration:	4391s
Proposal Id:	KPGT_mgroen01_1





## Herschel data mining tools (V)



### ✓ **Herschel in ADS (Astrophysics Data System)**

[http://adsabs.harvard.edu/abstract\\_service.html](http://adsabs.harvard.edu/abstract_service.html)

[http://cdsads.u-strasbg.fr/abstract\\_service.html](http://cdsads.u-strasbg.fr/abstract_service.html)

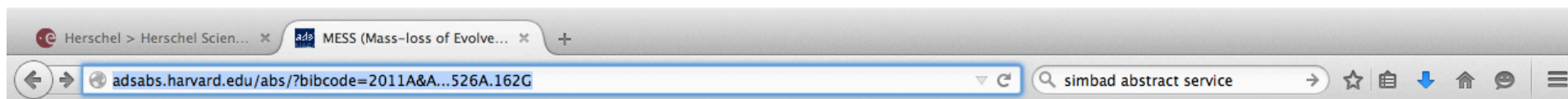
- access to full text of refereed papers / also links to observations used for the paper and associated postcards from 'On-Line Data'
- ADS include links to Herschel proposal abstracts since only a few weeks ago

*How to access the full contents of publications based on Herschel data?*

*Which Herschel observations were used to produce a particular publication?*



# Access to Herschel data from ADS



## SAO/NASA ADS Astronomy Abstract Service

- [Find Similar Abstracts \(with default settings below\)](#)
- [Electronic Refereed Journal Article \(HTML\)](#)
- [Full Refereed Journal Article \(PDF/Postscript\)](#)
- [arXiv e-print \(arXiv:1012.2701\)](#)
- [On-line Data](#)
- [References in the article](#)
- [Citations to the Article \(63\) \(Citation History\)](#)
- [Refereed Citations to the Article](#)
- [SIMBAD Objects \(132\)](#)
- [Also-Read Articles \(Reads History\)](#)
- [Translate This Page](#)

**Title:** MESS (Mass-loss of Evolved StarS), a Herschel key program

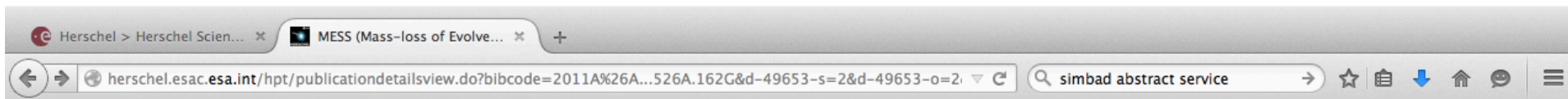
**Authors:** [Groenewegen, M. A. T.](#); [Waelkens, C.](#); [Barlow, M. J.](#); [Kerschbaum, F.](#); [Garcia-Lario, P.](#); [Cernicharo, J.](#); [Blommaert, J. A. D. L.](#); [Bouwman, J.](#); [Cohen, M.](#); [Cox, N.](#); [Decin, L.](#); [Exter, K.](#); [Gear, W. K.](#); [Gomez, H. L.](#); [Hargrave, P. C.](#); [Henning, Th.](#); [Hutsemékers, D.](#); [Iverson, R. J.](#); [Jorissen, A.](#); [Krause, O.](#); [Ladjal, D.](#); [Leeks, S. J.](#); [Lim, T. L.](#); [Matsuura, M.](#); [Nazé, Y.](#); [Olofsson, G.](#); [Ottensamer, R.](#); [Polehampton, E.](#); [Posch, T.](#); [Rauw, G.](#); [Royer, P.](#); [Sibthorpe, B.](#); [Swinyard, B. M.](#); [Ueta, T.](#); [Vamvatira-Nakou, C.](#); [Vandenbussche, B.](#); [van de Steene, G. C.](#); [van Eck, S.](#); [van Hoof, P. A. M.](#); [van Winckel, H.](#); [Verdugo, E.](#); [Wesson, R.](#)

**Affiliation:** AA(Koninklijke Sterrenwacht van Belgium, Ringlaan 3, 1180 Brussel, Belgium [marting@oma.be](mailto:marting@oma.be)), AB(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium), AC(Department of Physics and Astronomy, University College London, Gower Street, London WC1E 6BT, UK), AD(University of Vienna, Department of Astronomy, Türkenschanzstrasse 17, 1180 Wien, Austria), AE(Science Centre, European Space Astronomy Centre, Villafranca del Castillo, Apartado de Correos 78, 28080 Madrid, Spain), AF(Astrophysics Dept, CAB (INTA-CSIC), Crta Ajalvir km4, 28805 Torrejon de Ardoz, Madrid, Spain), AG(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium), AH(Max-Planck-Institut für Astronomie, Königstuhl 17, 69117 Heidelberg, Germany), AI(Radio Astronomy Laboratory, University of California at Berkeley, CA 94720, USA), AJ(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium), AK(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium; Sterrenkundig Instituut Anton Pannekoek, University of Amsterdam, Kruislaan 403, 1098 Amsterdam, The Netherlands), AL(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium), AM(School of Physics and Astronomy, Cardiff University, 5 The Parade, Cardiff, Wales CF24 3YB, UK), AN(School of Physics and Astronomy, Cardiff University, 5 The Parade, Cardiff, Wales CF24 3YB, UK), AO(School of Physics and Astronomy, Cardiff University, 5 The Parade, Cardiff, Wales CF24 3YB, UK), AP(Max-Planck-Institut für Astronomie, Königstuhl 17, 69117 Heidelberg, Germany), AQ(Institut d'Astrophysique et de Géophysique, Allée du 6 août, 17, Bât. B5c, 4000 Liège 1, Belgium), AR(UK Astronomy Technology Centre, Royal Observatory Edinburgh, Blackford Hill, Edinburgh EH9 3HJ, UK), AS(Institut d'Astronomie et d'Astrophysique, Université libre de Bruxelles, CP 226, Boulevard du Triomphe, 1050 Bruxelles, Belgium), AT(Max-Planck-Institut für Astronomie, Königstuhl 17, 69117 Heidelberg, Germany), AU(Institute of Astronomy, University of Leuven, Celestijnenlaan 200D, 3001 Leuven, Belgium), AV(Space Science and Technology Department, Rutherford Appleton Laboratory, Oxfordshire, OX11 0QX, UK), AW(Space Science and Technology Department, Rutherford Appleton Laboratory, Oxfordshire, OX11 0QX, UK), AX(Department of Physics and Astronomy, University College London, Gower Street, London WC1E 6BT, UK; Mullard Space Science Laboratory, University College





# Access to Herschel data from ADS



## Publication details

### MESS (Mass-loss of Evolved StarS), a Herschel key program

Groenewegen M. A. T., Waelkens C., Barlow M. J., Kerschbaum F., Garcia-Lario P., Cernicharo J., Blommaert J. A. D. L., Bouwman J., Cohen M., Cox N., Decin L., Exter K., Gear W. K., Gomez H. L., Hargrave P. C., Henning T., Hutsemékers D., Ivison R. J., Jorissen A., Krause O., Ladjal D., Leeks S. J., Lim T. L., Matsuura M., Nazé Y., Olofsson G., Ottensamer R., Polehampton E., Posch T., Rauw G., Royer P., Sibthorpe B., Swinyard B. M., Ueta T., Vamvatira-Nakou C., Vandenbussche B., van de Steene G. C., van Eck S., van Hoof P. A. M., van Winckel H., Verdugo E., Wesson R.

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#### Abstract

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**BibCode:** [2011A&A...526A.162G](#)

**DOI:** [10.1051/0004-6361/201015829](#)

**Citations:** 62

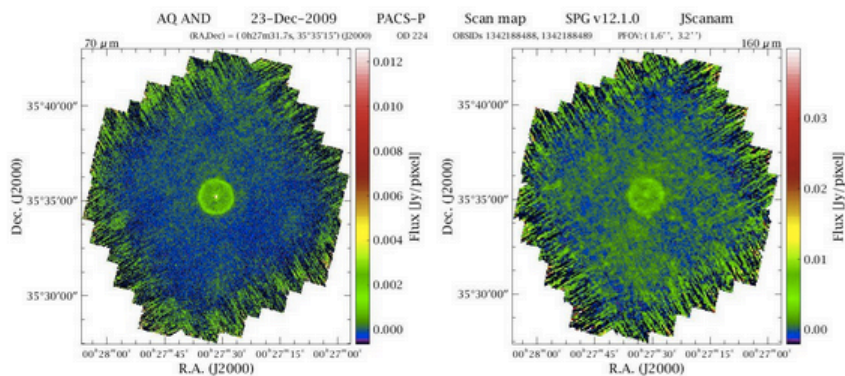
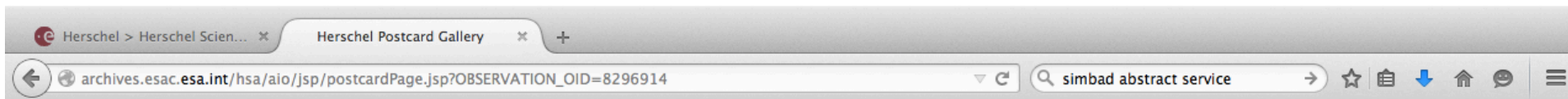
#### Observations:

OD	Target	RA	DEC	Proposal	AOT	Duration	Start time	Obs. Id	AOR Label	SPG version	QC State	Postcard
224	AQ AND	0h27m31.680s	+35d35m14.50s	KPGT_mgroen01_1	PacsPhoto	892	2009-12-23T22:41:57Z	1342188488	PPhoto-AQ_AND_45	SPG v12.1.0	PASSED	
224	AQ AND	0h27m31.680s	+35d35m14.50s	KPGT_mgroen01_1	PacsPhoto	892	2009-12-23T22:57:52Z	1342188489	PPhoto-AQ_AND_135	SPG v12.1.0	PASSED	





# Access to Herschel data from ADS



<b>Observation:</b>	<b>1342188488</b>
Instrument:	PACS
Mode:	PacsPhoto
Target:	AQ AND
RA:	00h27m32s
DEC:	35d35m11s
OD Number:	224
Duration:	892s
Proposal Id:	KPGT_mgroen01_1

[Data Download](#)



Coming soon...



### ✓ **Herschel in SIMBAD/NED**

- cross-matches with SIMBAD objects (currently being produced and carefully scrutinized) will also soon allow linking to Herschel observations
- At the moment only a few cross-matched sources have been ingested in SIMBAD – this will be extended to the whole archive

*Users will be confronted with Herschel measurements without a priori knowledge of Herschel*

### ✓ **Herschel in the Virtual Observatory**

- SPIRE and PACS photometric observations will be the first

*Use of Herschel data in combination with data from other VO facilities/observatories*



# Access to Herschel data from SIMBAD



Herschel > Herschel Scien... x HD 187642 x +

simbad.u-strasbg.fr/simbad/sim-id?ident=HD+187642&Nbident=1&Radius=2&Radius.unit=arcmin&submit=submit+id simbad abstract service

Portal Simbad VizieR Aladin X-Match Other Help

## HD 187642

other query Identifier Coordinate Criteria Reference Basic Script Output Help  
 modes : query query query query query submission options

Query : HD 187642

C.D.S. - SIMBAD4 rel 1.225 - 2015.04.15CEST04:59:20

Available data : [Basic data](#) • [Identifiers](#) • [Plot & images](#) • [Bibliography](#) • [Measurements](#) • [External archives](#) • [Notes](#) • [Annotations](#)

### Basic data :

**\* alf Aql -- Variable Star of delta Sct type**

Other object types.

(\* , AG, ASCC, BD, CSI, FK5, GAT, GC, GCRV, GEN#, GJ, GSC, HD, HIC, HIP, HR, JP11, N30, 8pc, PLX, PMC, PPM, ROT, SAO, SKY#, TYC, UVB, USNO, uvby98, Zkh), PM\* (Ci, LFT, LHS, LSPM, LTT, NLTT, PM), IR (AKARI, IRAS, IRC, 2MASS, RAFGL), \*\* (ADS, CCDM, IDS, WDS), X (2E, 1ES, 1RXS), V\* (V\*, NSV), UV (TD1)

ICRS coord. ( $ep=J2000$ ) : 19 50 46.99855 +08 52 05.9563 ( Optical ) [ 4.48 4.12 81 ] A [2007A&A...474..653V](#)

FK5 coord. ( $ep=J2000 eq=2000$ ) : 19 50 46.999 +08 52 05.96 ( Optical ) [ 4.48 4.12 81 ] A [2007A&A...474..653V](#)

FK4 coord. ( $ep=B1950 eq=1950$ ) : 19 48 20.59 +08 44 05.6 ( Optical ) [ 25.83 23.92 0 ] A [2007A&A...474..653V](#)

Gal coord. ( $ep=J2000$ ) : 047.7441 -08.9092 ( Optical ) [ 4.48 4.12 81 ] A [2007A&A...474..653V](#)

Proper motions  $mas/yr$  : 536.23 385.29 [0.51 0.47 0] A [2007A&A...474..653V](#)

Radial velocity / Redshift / cz : V(km/s) -26.60 [0.4] / z(-) -0.000089 [0.000001] / cz -26.60 [0.40] (~) A [2006AstL...32..759G](#)

Parallax  $mas$  : 194.95 [0.57] A [2007A&A...474..653V](#)

Spectral type: A7Vn C [2003AJ....126.2048G](#)

Fluxes (8) :  
 U 1.07 [-] C [2002yCat.2237....0D](#)  
 B 0.98 [-] C [2002yCat.2237....0D](#)  
 V 0.76 [-] C [2002yCat.2237....0D](#)  
 R 0.62 [-] C [2002yCat.2237....0D](#)  
 I 0.49 [-] C [2002yCat.2237....0D](#)  
 J 0.35 [-] C [2002yCat.2237....0D](#)  
 H 0.24 [-] C [2002yCat.2237....0D](#)

SIMBAD





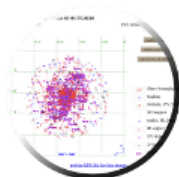
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Herschel > Herschel Scien... x HD 187642 x +  
simbad.u-strasbg.fr/simbad/sim-id?ident=HD+187642&Nbident=1&Radius=2&Radius.unit=arcmin&submit=submit+id simbad abstract service

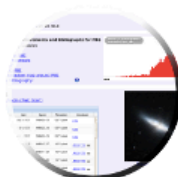
<a href="#">Ci</a> 20 1169	<a href="#">HR</a> 7557	<a href="#">PLX</a> 4665	<a href="#">USNO</a> 891
<a href="#">CSI+08</a> 4236 1	<a href="#">IDS</a> 19459+0836 A	<a href="#">PLX</a> 4665.00	<a href="#">uvby98</a> 100187642
<a href="#">2E</a> 4294	<a href="#">IRAS</a> 19483+0844	<a href="#">PMC</a> 90-93 530	<a href="#">WDS</a> J19508+0852A
<a href="#">2E</a> 1948.3+0844	<a href="#">IRC</a> +10441	<a href="#">PM</a> 19484+0844	<a href="#">Zkh</a> 297
<a href="#">LES</a> 1948+08.7	<a href="#">JP11</a> 3142	<a href="#">PPM</a> 168779	
<a href="#">FK5</a> 745	<a href="#">LFT</a> 1499	<a href="#">RAFGL</a> 2463	

## Plots and Images

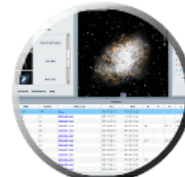


plot

radius  arcmin



CDS portal



CDS Simplay  
*(requires flash)*



Aladin applet

## References (717 between 1850 and 2015)

Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar system).

sort references  
display reference summary  
from:  to:

Sort reference summaries by : (not exhaustive, [explanation here](#))

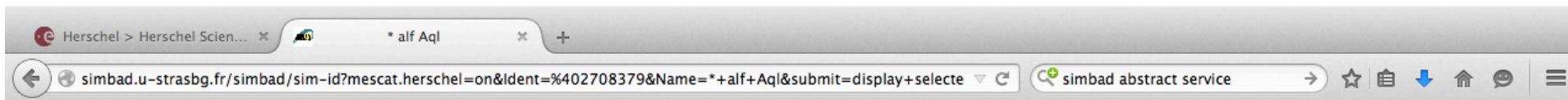
Date Title|Abstract|Keyword In table Score

## Measurements (22 types) :

Einstein : 1  Fe\_H : 2  GEN : 1  GJ : 2  Hbet1 : 4  herchel : 2  IRAS : 1  ISO : 9  IUE : 18  JP11 : 2  MK : 32  oRV : 11  
 PLX : 11  PM : 7  pos : 3  posa : 1  ROT : 6  SAO : 1  TDI : 1  UBV : 15  uvby1 : 3  velocities : 13



# Access to Herschel data from SIMBAD



## Measurements (22 types) :

- Einstein : 1
- Fe\_H : 2
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- GJ : 2
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- IRAS : 1
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- JP11 : 2
- MK : 32
- orV : 11
- PLX : 11
- PM : 7
- pos : 3
- posa : 1
- ROT : 6
- SAO : 1
- TD1 : 1
- UBV : 15
- uvby1 : 3
- velocities : 13

### [herchel](#) (2)

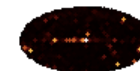
The 1 column in *color* are computed by VizieR, and are *not part of the original data*.

Note: (see also the [postcard server](#))

[VI/139/herchel](#)  
Post annotation

[Herschel Observation Log \(Herschel Science Centre, 2013\) \[ReadMe+ftp\]](#)  
[2013yCat.6139....0H](#)

The Herschel Observation Log (37093 rows)



start AladinLite

<a href="#">Full</a>	<a href="#">r</a> <a href="#">arcmin</a>	<a href="#">OD</a>	<a href="#">Target</a>	<a href="#">RAJ2000</a> "h:m:s"	<a href="#">DEJ2000</a> "d:m:s"	<a href="#">Proposal</a>	<a href="#">AOT</a>	<a href="#">Dur</a> s	<a href="#">Start</a> s	<a href="#">ObsId</a>	<a href="#">PACS</a>	<a href="#">HIFI</a>
<a href="#">1</a>	0.0001	360	P-A002 (HD 187642)	19 50 47.00	+08 52 06.0	<a href="#">XPOT bmatthew 1</a>	PacsPhoto	1122	2010-05-09T15:46:50	1342196033		
<a href="#">2</a>	0.0001	360	P-A002 (HD 187642)	19 50 47.00	+08 52 06.0	<a href="#">XPOT bmatthew 1</a>	PacsPhoto	1122	2010-05-09T15:27:05	1342196032		

## External archives :

Archive data at [HEASARC - High-Energy Astrophysics Science Archive Research Center](#)

Catalogue information from [VizieR](#) :

[Generic search by coordinates \(radius: 14 arcsec\)](#)

[V\\* alf Aql](#)  
[GJ 768](#)  
[HR 7557](#)

[AG+08 2636](#)  
[GSC 01058-03399](#)  
[IRAS 19483+0844](#)

[BD+08 4236](#)  
[HD 187642](#)  
[IRC +10441](#)

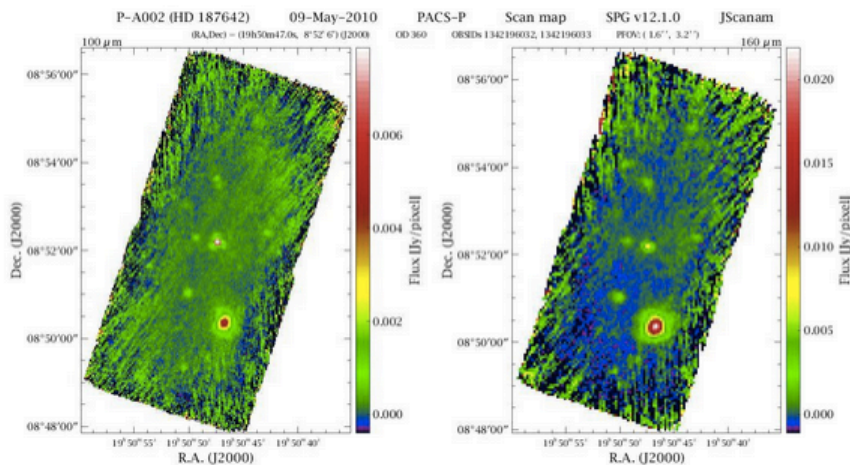
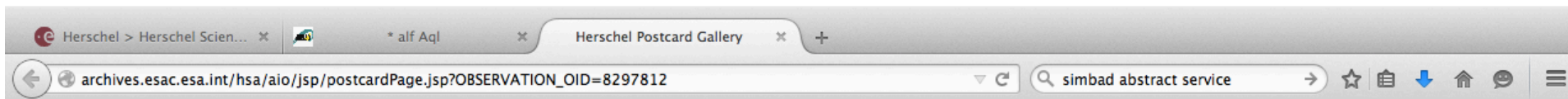
[CCDM J19508+0852A](#)  
[HIC 97649](#)  
[LHS 3490](#)

[FK5 745](#)  
[HIP 97649](#)  
[LSPM J1950+0852](#)





# Access to Herschel data from SIMBAD



<b>Observation:</b>	<b>1342196033</b>
Instrument:	PACS
Mode:	PacsPhoto
Target:	P-A002 (HD 187642)
RA:	19h50m48s
DEC:	-8d52m13s
OD Number:	360
Duration:	1122s
Proposal Id:	KPOT_bmatthew_1

Data Download



**If you want to know more or need help...**



✓ **Visit the Herschel booth during the coffee breaks during the days of the workshop and ask the experts**

✓ **Raise a ticket in our HSC Helpdesk**

<http://herschel.esac.esa.int/esupport/>

***Thank you!!***