



ESO
European Organisation
for Astronomical
Research in the
Southern Hemisphere

Facility Identifiers - How they are (or aren't) used

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Background

- ESO Library tracks papers that use data from ESO facilities and compiles this further into statistics that can be used to gauge our productivity and effectiveness within the astronomy community

The Problem

- What is the problem?
 - Tracking papers that use facilities is troublesome
- Why is this happening?
 - Varying degrees of facility information provided
- Why is this a problem?
 - More time spent tracking and tagging papers

Acknowledgement Example

The GOODS Web site²² provides further details of the project and access to the GOODS data. Support for the **GOODS HST** Treasury Program was provided by NASA through grants HST-GO09425.01-A and HST-GO-09583.01. Additional support for this work, which is also part of the *SIRTF* Legacy Science Program, was provided by NASA through contract 1224666 issued by the Jet Propulsion Laboratory, California Institute of Technology, under NASA contract 1407. P. M. acknowledges support from NASA through grant NAG5-11513.

Footnote Example

* Based on observations collected at the **La Silla Parana Observatory**, ESO (Chile) with the **UVES** spectrograph at the 8.2-m Kueyen telescope, under programs 079.C-0131 and 66.D-0457.

¹ For a recent general review of the properties of the known exoplanets see [Udry & Santos \(2007\)](#).

First Steps Toward a Solution

- Common facility list (AAS)

AAS Find Facility by Location Tool

AAS

Facility Keywords
Introduction
View the Full List

Keyword Generator
Find by Wavelength
Find by Location
Find Solar Facilities

[AASTeX Home Page](#)

Facility Keywords Sorted by Location

Space:
[- select facility -]

Airborne:
[- select facility -]

Africa and Canary Islands:
[- select facility -]

Antarctica:
[- select facility -]

Asia:
[- select facility -]

Australia:
[- select facility -]

Europe:
[- select facility -]

North America and Hawaii:
[- select facility -]

South America:
[- select facility -]

Earth:
[- select facility -]

Cut-and-paste the facility keyword list generated here into your AASTeX document. To clear the text frame, click the "Erase Text Area" button.

Click here for examples: [HST Facility example](#) [Long facilities example](#)

Cut-and-paste the facility keyword list generated here into your AASTeX document. To clear the text frame, click the "Erase Text Area" button.

```
{\it Facilities:} \facility{HST ( )}, \facility{VLT:Antu ( )}
```

Click here for examples: [HST Facility example](#) [Long facilities example](#)

<http://ucpjournals.uchicago.edu/AAS/facilities/index.html>

First Steps Toward a Solution

- Common facility list (AAS)
- Facilities/Programs section in papers

Facilities Example

Facilities: HST (ACS), Magellan:Baade (IMACS), XMM, VLA, MMT (Hectospec).

2. DATA AND SAMPLE

COSMOS (Scoville et al. 2007a), a *Hubble Space Telescope* Treasury project, includes coverage of a 2 deg^2 field from X-ray wavelengths to UV, optical, IR, and radio. The cornerstone data set, which we use for the bulk of our analysis, consists of 583 orbits taken with Hubble's Advanced Camera for Surveys (ACS) with the F814W filter (see Koekemoer et al. 2007 for a complete description). Ancillary observations include *XMM-Newton* X-ray imaging (Hasinger et al. 2007), VLA radio maps (Schinnerer et al. 2007), and **VLT/VIMOS** (Lilly et al. 2007) and Magellan/IMACS optical spectroscopy (Trump et al. 2007, 2008, in preparation).

Our sample selection focuses on AGN candidates in the COSMOS field with spectroscopic redshifts. An object is identified as an AGN candidate through detection as an X-ray point source above the $\sim 10^{-15} \text{ erg cm}^{-2} \text{ s}^{-1}$ flux limit in the 0.5–2 keV or 2–10 keV flux bands (Cappelluti et al. 2007; Brusa et al. 2007), or a radio source above the 0.1 mJy flux limit at 1.4 GHz (Schinnerer et al. 2007). Optical counterparts to these candidates with $I_{AB} < 24$ are followed up in the Magellan/IMACS spectroscopic survey, whose first season of

AAS_{TeX} Facilities Example

From the AAS sample.tex

```
{\it Facilities:} \facility{Nickel}, \facility{HST (STIS)}, \facility{CXO (ASIS)}.
```

Even better...

```
{\it Facilities:} \facility{VLT: (UVES)}
```

```
{\it Programs:} \program{ESO (079.C-0131)}, \program{ESO (66.D-0457)}
```

<http://ucpjournals.uchicago.edu/AAS/AAS_{TeX}/samples.html>

Retrieval

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Request: If you know of a published article or Ph. D. Thesis that is not in the ADS, please submit it through our [form](#).

Databases to query: [Astronomy](#) [Physics](#) [arXiv e-prints](#)

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 [Require object for selection](#)
 [OR](#) [AND](#) [simple logic](#)
(Combine with: [OR](#) [AND](#))

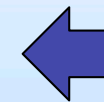
Publication Date between a a
 (MM) (YYYY)

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Return items starting with nu

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Facilities/Programs cannot be searched easily via the ADS at the moment...

fuse
fulltext search

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- » [Queue](#)

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Current Query

User: Uta
 Query Date: 2009-07-09 14:09:36
 Journals Searched: A&A,+A&ARv,+AJ,+ApJ,+ApJS,+ARA&A,+EM&P,+Icar,+MNRAS,+Natur,+NewA,+NewAR,+PASP,+Sci
 Query Link: http://esoads.eso.org/cgi-bin/nph-abs_connect?db_k...
 Dates Searched: 2009-04-17 - 2009-04-24
 Notes: telbib 17/4/09 - before 24/4/09 (171 records)
 Records Searched: 4
 Keywords found: 104

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 - choose -

ID#	Status	Search	Record/Keyword(s)	LookInside	Online	Delete	Debug
6023		Not Included	2009Icar...201..172L Laver, Conor The global distribution of sulfur dioxide ice on Io, observed with OSIRIS on the W.M. Keck telescope Icarus, Volume 201, Issue 1, p. 172-181.	6023.txt	PDF/HTML	<input type="checkbox"/>	debug
6002		Not Included	2009NewA...14..521H Helminiak, Krzysztof G. Impact of the atmospheric refraction on the precise astrometry with adaptive optics in infrared New Astronomy, Volume 14, Issue 6, p. 521-527.	6002.txt	PDF/HTML	<input type="checkbox"/>	debug

... so other methods must be used (i.e. ESO Library FUSE – full text search tool)



Looking Forward

- Establish a **more complete facility list**
- **Motivate publishers** to include facilities/programs sections
- **Encourage authors** to use facilities/programs sections
- Modify **institutional policies**
- Request the ADS to **index** these sections and **add search**
- Spark interest among **proposal committees** to convince authors