

# CDS Annotations Service

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# Summary

- Introduction
- Design
- Features
- Usage statistics
- Perspectives

# Introduction

- Euro-VO AIDA project
  - Assessment of Web 2.0 usage in a data center
- Definition (extract from the official documentation)
  - *The annotations service allows the users to make comments and notify errors on the data available through CDS services.*
- Official documentation
  - <http://cdsannotations.u-strasbg.fr/doc>
- User authentication
  - To use this service and add annotations, a user has to be registered on the independent **CDS login service**

# Design

- J2EE Web Application hosted on Tomcat
  - Java servlet, JSP
  - MySQL database
  - JDBC (Java DataBase Connectivity) to interface with database
  - Rich user interface: HTML + **AJAX** + Dojo (Javascript framework)
- ... and a REST Web Service
  - Commands: addAnnotation, getAnnotations, getNbAnnotations, ...
  - Content negotiation
    - XML or JSON
  - Logical URLs (better than physical !)
    - <http://cdsannotations.u-strasbg.fr/annotations/last>
    - <http://cdsannotations.u-strasbg.fr/annotations/simbadObject/650221> [/add | /rss]

# Application to SIMBAD service

- The annotation service is independent from SIMBAD
- Link is made through the internal identifier of a SIMBAD object
- Several interactions :
  - Retrieve the number of annotations for a particular object:
    - <http://cdsannotations.u-strasbg.fr/annotations/simbadObject/650221/nb>
  - Construct the link to the page showing the annotations for this object :
    - <http://cdsannotations.u-strasbg.fr/annotations/simbadObject/650221>
  - Construct the link to the page to add an annotation for this object :
    - <http://cdsannotations.u-strasbg.fr/annotations/simbadObject/650221/add>
  - Section added on each page of a SIMBAD object

# Example : annotations in SIMBAD

**V\* V407 Cyg** SIMBAD object :

## Measurements (2 types) :

IUE : 4     v\* : 1

display selected measurements

display all measurements

clear

## External archives :

Catalogue information from [VizieR](#)

[V\\* V407 Cyg](#)

[GSC 03588-02258](#)

[2MASS J21020980+4546329](#)

## Annotations :

[display existing annotations \(1\)](#)

[add an annotation](#)



[report an error](#)

# Features

- Create, edit and reply (rich content with bbcode)
  - Lists
  - Simple HTTP link
  - Dedicated links : SIMBAD object, VizieR catalogue, bibcode
    - on-the-fly validation !
  - Bold, italic and underlined text
- Search by keywords, sort by date

## Write an annotation about V\* V407 Cyg object

➔ [View object in Simbad](#) 

List  Link  Preview

|

5000 character(s) remaining

► **Moderation text:**

|

5000 character(s) remaining

- Notify the SIMBAD team about an error on this object
- Make my annotation visible to CDS team only

**Post my annotation**

Cancel

 Note that you will be able to edit your annotation during 24 hours.



# Moderation & administration


- Annotations require supervision!
- Moderation
  - A moderator can add a message directly in an annotation, but visually appart from the original content created by the user
- Administration
  - Manage annotations (delete, moderate, change status, view stats,...)
  - Manage users (visualize the list, edit their role, status,...)

# Visibility & subscription

- Referencing by search engines (despite AJAX)
  - `<noscript>` tag added on html pages, containing annotations content (because robots can't read javascript generated content)
- Follow annotations (by object, by user or by date)
  - E-mail alert system
  - RSS flux

Sort by: **Date** ▾

⏪ ⏩ 1 2 3 4 5 6 ⏪ ⏩


# **jgsimbad** on 2010-03-13 at 13:00 



**V\* V407 Cyg** object - view in  · [annotations](#)

= Variable Star V407 Cygni. Confirmed in the single reference paper mentioned in this object entry's page, specifically in [Table 3](#) of [Deguchi et al. 2005](#).


[V407 Cygni](#) already has a full SIMBAD Object Entry

 The 2 stars have been merged in Simbad


Edited by fox1 on 2010-03-13 18:47

# **drklein** (Randolf Klein) on 2010-03-12 at 21:33



**GAL 060.88-00.13** object - view in  · [annotations](#)


This object is also listed as IRAS 19442+2428. This IRAS number is used in the literature, though it does not exist in the IRAS PSC. The IRAS source to this position is IRAS 19442+2427.

 The IRAS name was removed, and a note attached to the source [IRAS 19442+2427](#), a HII region distinct in Simbad from the maser source.

Edited by fox1 on 2010-03-13 18:06

# **kiraga** on 2010-03-12 at 17:38



**2MASS J19235591-3018534** object - view in  · [annotations](#)

Eclipsing binary star with a period  $P = 1.11578$  d. listed in ASAS Catalogue of Variable Stars ([Pojmanski 2002](#), [AcA](#), 52, 397, online: <http://www.astrouw.edu.pl/asas/?page=catalogues>).

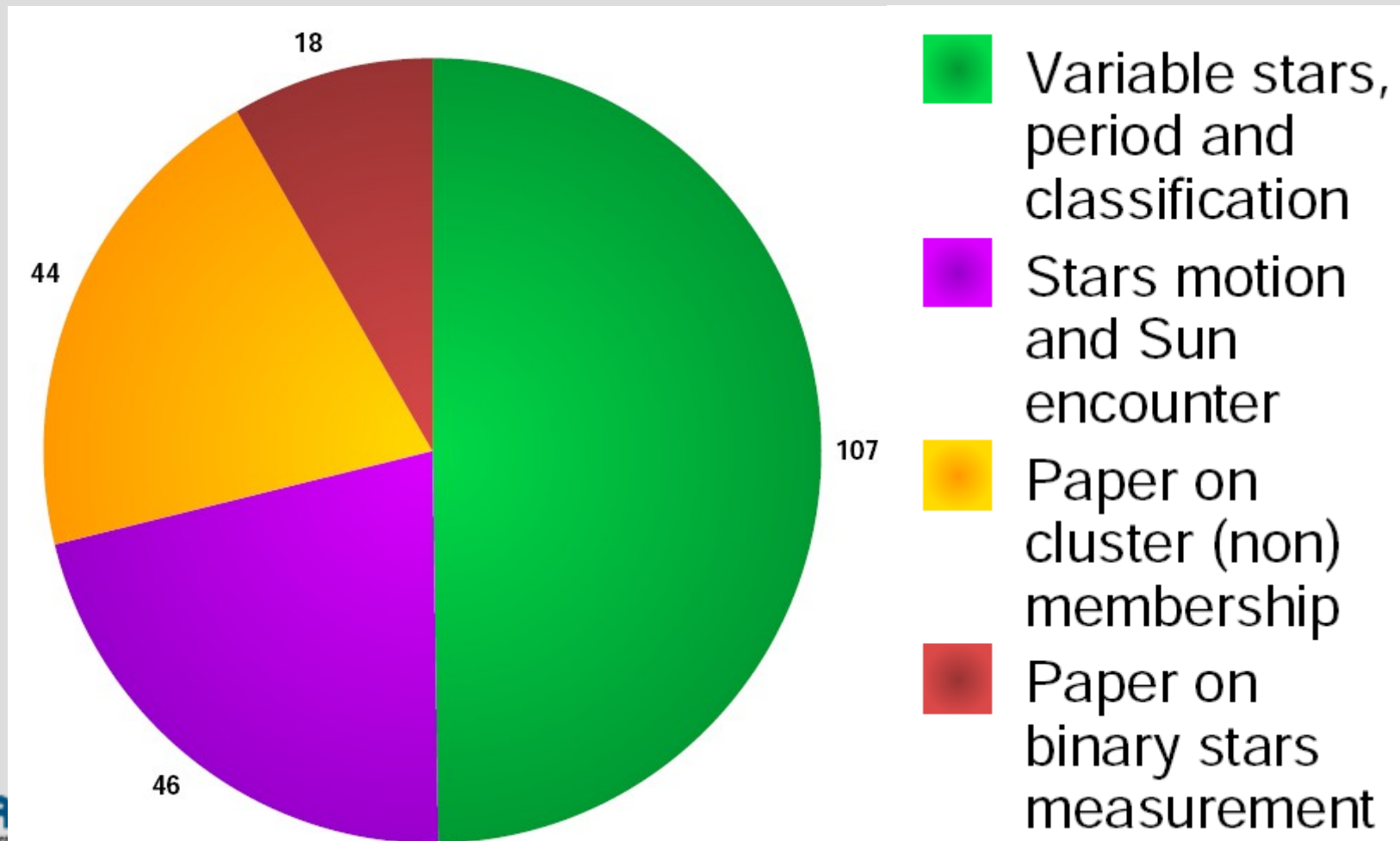
Edited by Cilou on 2010-03-15 9:24

# Usage statistics

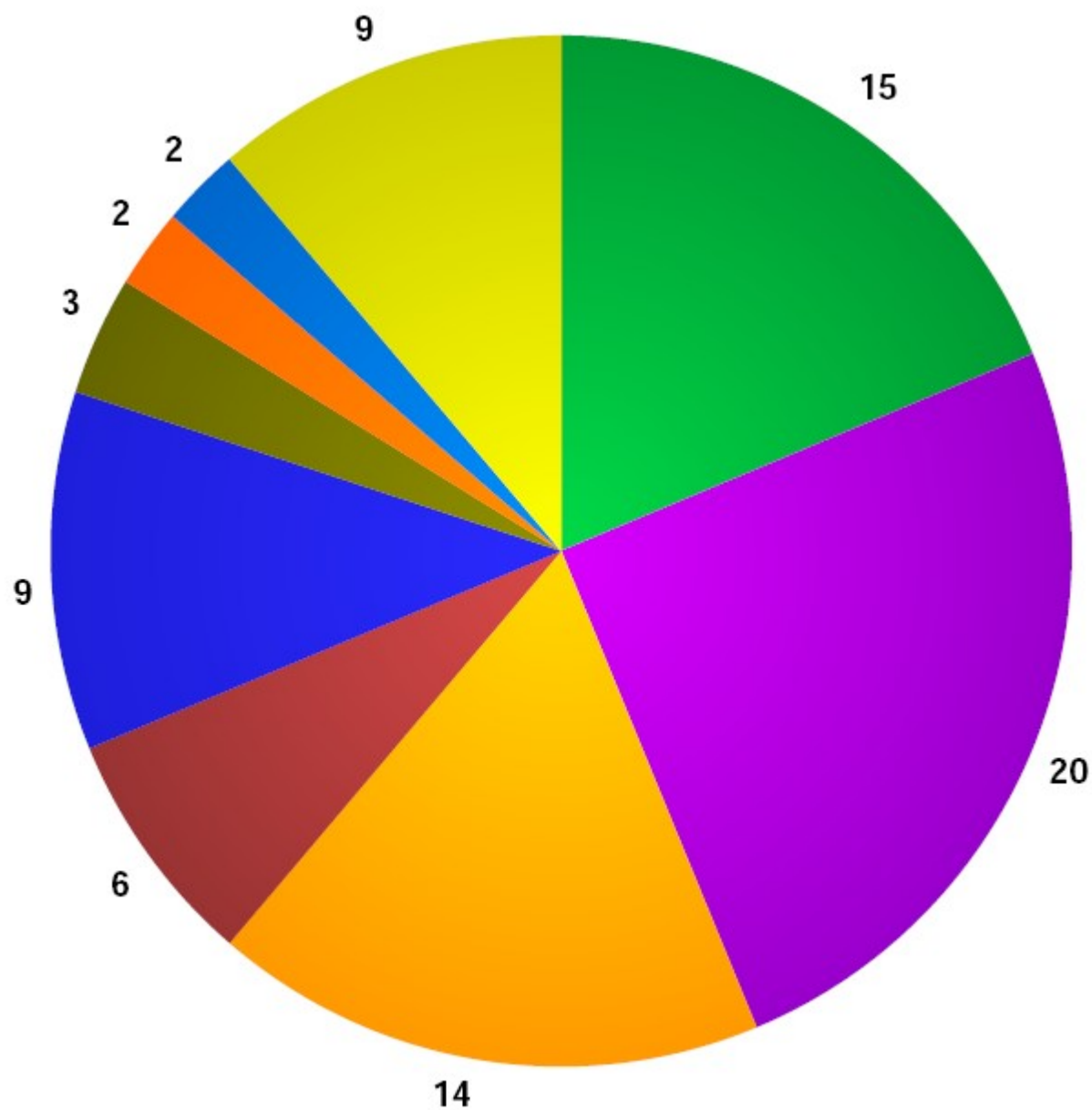
- **Statistics at M+2.5**
  - **63** users have subscribed
    - **49** users have posted at least one annotation
  - **295** annotations have been posted
    - **12** private
    - **61** error notifications
  - **272** SIMBAD objects have been annotated (so mainly 1 annotation per annotated object)
  - **~7000** pages viewed
  - **0** spam !!!

# « Regular » and « Power » users

- 4 « power users » writing 215/295 annotations



# Annotations from « Regular » users



- Object fusion/split/delete
- Wrong or outdated measurement
- Add identifier
- Add bibliography
- Add/refine classification
- Hierarchy
- Add measure
- Link to catalogue
- Various

# SIMBAD Object page

Object

Classification

Bibliography

Links to archives

Measures

Identifiers

other query modes :

Object query : MRK 926

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

Basic data :  
QSO B2302-0857 -- Seyfert 1 Galaxy

Other object types:  
Sy1 ( ), X (2A,3A,1H,1H,1RBS,RK,1RXS,SWIFT,4U,1WGA,XSS,[KRL20 (QSO,[VV2000],[VV2003],[VV96],[VV98]),AGN ([HB91],[VV2006 \* (GSC)

ICRS coord. (ep=2000.0) : 23 04 43.48 -08 41 08.6 ( Infrared ) [ 80 60 88 ] B [2003yCa](#)  
FK5 coord. (ep=2000 eq=2000) : 23 04 43.48 -08 41 08.6 ( Infrared ) [ 80 60 88 ] B [2003yCa](#)  
FK4 coord. (ep=1950 eq=1950) : 23 02 07.18 -08 57 29.6 ( Infrared ) [ 80 60 88 ] B [2003yCa](#)  
Gal coord. (ep=2000) : 064.0915 +58.7577 ( Infrared ) [ 80 60 88 ] B [2003yCat.2246](#)  
Radial velocity / Redshift / cz : V(km/s) 12000 [90] / z(~) 0.047156 [0.000300] / cz 14137.01  
Morphological type: S0a D -  
Angular size (arcmin): 0.750 0.630 87 (~) ~ D ~  
Fluxes (10) :  
U 14.5 [-] E -  
V 13.76 [-] E -  
J 11.837 [0.028] C [2006AJ...131.1163S](#)  
H 11.057 [0.037] C [2006AJ...131.1163S](#)  
K 10.639 [0.041] C [2006AJ...131.1163S](#)

References (263 between 1850 and 2010)

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

display  
reference summary  
from: 1850 to: 2010

Measurements (7 types)

ISO : 4  IWE : 38

display selected measurements display all measurements clear

External archives :

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

data at [NED - NASA/IPAC Extragalactic Database](#)

catalogue information from [VizieR](#) :

[numeric search by coordinates \(radius: 5 arcsec\)](#)

[ST J230443.4-084108](#) [GSC 05820-01110](#) [2MAS J23044347-0841086](#) [2MASS J2304434-084108](#) [2MAS J23044349-0841084](#)  
[IG -08.0639](#) [1RXS J230443.8-084106](#) [SDSS J23044347-084108.6](#)

Identifiers (35) :

<a href="#">Mrk 926</a>	<a href="#">M 2302-090</a>	<a href="#">QSO B2302-0857</a>	<a href="#">XSS J23040-0834</a>
<a href="#">2A 2303-088</a>	<a href="#">INTREF 1101</a>	<a href="#">QSO B2302-089</a>	<a href="#">[HB91] 2302-089</a>
<a href="#">2L 2302-088</a>	<a href="#">LEDA 70409</a>	<a href="#">RBS 1940</a>	<a href="#">[KRL2007b] 401</a>
<a href="#">3A 2302-089</a>	<a href="#">2MASS J23044347-0841086</a>	<a href="#">RX J2304.7-0841</a>	<a href="#">[VV2000] J230443.5-084108</a>
<a href="#">dFESS gJ230443.5-084109</a>	<a href="#">2MASS1 J2304434-084108</a>	<a href="#">1RXS J230443.8-084106</a>	<a href="#">[VV2000] J230443.5-084108</a>
<a href="#">FIRST J230443.4-084108</a>	<a href="#">2MASX J23044349-0841084</a>	<a href="#">SDSS J23044347-084108.6</a>	<a href="#">[VV2000] J230443.5-084108</a>
<a href="#">GSC 05820-01110</a>	<a href="#">M85 23021-0857</a>	<a href="#">SWIFT J2304.8-0843</a>	<a href="#">[VV2000] J230443.5-084108</a>
<a href="#">1M 2303-089</a>	<a href="#">MCG-02-58-022</a>	<a href="#">4U 2305-07</a>	<a href="#">[VV2000] J230443.5-084108</a>
<a href="#">HE 2302-0857</a>	<a href="#">NPH16 -08.0639</a>	<a href="#">1WGA J2304.7-0841</a>	

# Perspectives

- Consider users feedback and continue to improve the service
- Annotations for VizieR catalogs
- Collect usage statistics
  - How is the annotations service used?
    - A good complement to the data?
    - A good alternative to handle error notifications?
    - What amount of spam?
  - How does such a service impact a data center and its users?
  - Is it a good thing?



- Questions ?