

The logo for 'SINBAD' is centered on the page. The text 'SINBAD' is rendered in a bold, black, sans-serif font. Behind the text is a large, stylized brushstroke that curves from the bottom left towards the top right. The brushstroke is primarily blue with a yellow section in the middle, suggesting a sun or a specific object. The overall style is modern and artistic.

SINBAD

June 2012

Set of Identification Measurements and Bibliography for Astronomical Data

The Simbad database contains
information around 7,000,000
astronomical objects

SIMBAD Astronomical Database

Queries	Documentation	Information
basic search	User's guide	Presentation
by identifier		
by coordinates		Acknowledgment
by criteria	Query by urls	
reference query	Nomenclature Dictionary	
scripts	Object types	
TAP queries	List of journals	
options	Measurement description	
	Spectral type coding	
Display all user annotations	User annotations documentation	

Release:
SIMBAD4 1.194 - 26-Apr-2012

Basic search

Specify a target name, or coordinates, or a bibcode

Content	Statistics								
The SIMBAD astronomical database provides basic data, cross-identifications, bibliography and measurements for astronomical objects outside the solar system. SIMBAD can be queried by object name, coordinates and various criteria. Lists of objects and scripts can be submitted. Links to some other on-line services are also provided.	Simbad contains on 2012.06.18 <table border="1"> <tr> <td>6,967,031</td> <td>objects</td> </tr> <tr> <td>17,090,524</td> <td>identifiers</td> </tr> <tr> <td>268,581</td> <td>bibliographic references</td> </tr> <tr> <td>8,697,815</td> <td>citations of objects in papers</td> </tr> </table>	6,967,031	objects	17,090,524	identifiers	268,581	bibliographic references	8,697,815	citations of objects in papers
6,967,031	objects								
17,090,524	identifiers								
268,581	bibliographic references								
8,697,815	citations of objects in papers								
Acknowledgment	Basic search								
If the Simbad database was helpful for your research work, the following acknowledgment would be appreciated: <i>This research has made use of the SIMBAD database, operated at CDS, Strasbourg, France</i>	<input type="text"/> <i>identifier, coordinates (radius=10 arcmin), or bibcode</i> <input type="button" value="SIMBAD search"/> <input type="button" value="clear"/> help Install the Simbad basic search in your tool bar								



SIMBAD on the Web is the WWW interface to the SIMBAD database. It offers the following functionalities:

- Query by identifiers and around identifiers
- Query by coordinates, specifying the radius and the equinox
- Query by bibcode and partial bibcode
- Sampling with a set of physical criteria
- Query by lists of objects, coordinates or bibcodes
- Display charts for list of objects resulting from coordinates query

Moreover, the interface provides links with many other data services :

SIMBAD Astronomical Database - Google Chrome

simbad.u-strasbg.fr/simbad/

CDS Centre de Données Astronomiques de Strasbourg

Simbad Vizier Aladin Catalogs info Dictionary Biblio Tutorials Resources

SIMBAD Astronomical Database

Queries	Documentation	Information
basic search	User's guide	Presentation
by identifier		Acknowledgment
by coordinates	Query by urls	
by criteria	Nomenclature Dictionary	
reference query	Object types	
scripts	List of journals	
TAP queries	Measurement description	
options	Spectral type coding	
Display all user annotations	User annotations documentation	Release: SIMBAD4 1.194 - 26-Apr-2012

Content	Statistics
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SIMBAD can be queried by object name, coordinates and various criteria. Lists of objects and scripts can be submitted.	6,967,031 objects
Links to some other on-line services are also provided.	17,090,524 identifiers
	268,581 bibliographic references
	8,697,815 citations of objects in papers

Acknowledgment	Basic search
If the Simbad database was helpful for your research work, the following acknowledgment would be appreciated: <i>This research has made use of the SIMBAD database, operated at CDS, Strasbourg, France</i>	<input type="text"/> <i>identifier, coordinates (radius=10 arcmin), or bibcode</i> SIMBAD search clear help Install the Simbad basic search in your tool bar

SIMBAD on the Web is the WWW interface to the SIMBAD database. It offers the following functionalities:

- Query by identifiers and around identifiers
- Query by coordinates, specifying the radius and the equinox
- Query by bibcode and partial bibcode
- Sampling with a set of physical criteria
- Query by lists of objects, coordinates or bibcodes
- Display charts for list of objects resulting from coordinates query

Moreover, the interface provides links with many other data services :

Other queries



Advanced search by identifiers, cone search, or criteria ...

You get ...

SIMBAD basic query result - Google Chrome

simbad.u-strasbg.fr/simbad/sim-basic?Ident=M51&submit=SIMBAD+search

Basic data :
M 51 -- Seyfert 2 Galaxy with radius arcmin

Other object types: Sy2 () , G (APG, KHG, LEDA, 2MASX, MCG, TC, UGC, UZC, Z, [H92], [M98c], [SLK2004], [VDD93]) , AGN ([VV2000c], [VV2003c], [VV2006c], [VV98c]) , IR (IRAS, ISOSS, PSCz, [DML87]) , X (RX, 1RXS, XMMU, [LPS2002]) , * (BD, PLX) , GiP (KPG, [T76]) , Rad (4C, GB1) , IG (VV) , G16 ([CHM2007])

ICRS coord. (ep=J2000) : 13 29 52.698 +47 11 42.93 (Infrared) [~ ~ ~] B [2006AJ....131.1163S](#)

Radial velocity / Redshift / cz : V(km/s) 465 [61] / z(~) 0.00155 [0.00020] / cz 465.0 [61.0] (~) D [1999PASP...111..438F](#)

Parallaxes mas: 7.8 [16.9] D [1995GCTP...C.....0V](#)

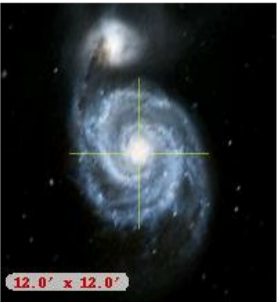
Morphological type: Sc D ~

Angular size (arcmin): 8.217 5.587 57 (~) (IR) C [2006AJ....131.1163S](#)

Fluxes (5) :
B 8.96 [0.06] D [2007ApJS..173..185G](#)
V 8.36 [0.06] D [2007ApJS..173..185G](#)
J 6.401 [0.019] C [2006AJ....131.1163S](#)
H 5.653 [0.02] C [2006AJ....131.1163S](#)
K 5.496 [0.025] C [2006AJ....131.1163S](#)

essential notes:

- [NGC 5195](#) is a possible companion [05-May-2004].
- = M 51a in [2004ApJ...602..231C](#) [05-Jun-2008].
- See GALEX UV data in [GALEX data](#) [01-Oct-2009].



Hierarchy : number of linked objects whatever the membership probability is (see description [here](#)) :

parents : 1 children : 2314 siblings : 137 Display criteria :

Identifiers (45) :

M 51	2MASX J13295269+4711429	UGC 8493	[M98c] 132746.9+472716
APG 85A	MCG+08-25-012	UZC J132952.1+471144	[SLK2004] 853
APG 85	NAME WHIRLPOOL	VV 403	[T76] 85A
BD+47 2063	NAME QUESTION MARK GALAXY	VV 1a	[VDD93] 187A
4C 47.36A	NAME WHIRLPOOL GALAXY	VV 1	[VV2000c] J132952.4+471141
GB1 1327+475	NGC 5194	XMMU J132952.9+471140	[VV2003c] J132952.4+471141
IRAS F13277+4727	PLX 3084	Z 246-8	[VV2006c] J132952.4+471141
IRAS 13277+4727	PLX 3084.00	Z 1327.8+4727	[VV98c] J132952.7+471143
ISOSS J13299+4714	PSCz Q13277+4727	[CHM2007] LDC 867 J132952.69+4711429	[ZEH2003] RX J1329.8+4711 1
KHG 1-C 5	RX J1329.8+4711	[DML87] 671	
KPG 379a	1RXS J132953.8+471143	[H92] 27	
LEDA 47404	TC 827	[LPS2002] 16	

Basic data

Hierarchy

All identifiers

You get ...

Links to images and field charts

Bibliographical references

Measurements

Links to external archives and original catalogs

User's annotations

The screenshot shows the SIMBAD web interface in a Google Chrome browser. The address bar displays the URL: `simbad.u-strasbg.fr/simbad/sim-basic?Ident=M51&submit=SIMBAD+search`. The page is divided into several sections:

- Plots and Images:** Contains four circular thumbnails: a star field plot, the CDS portal, CDS Simplay (noting it requires flash), and the Aladin applet. Below the plot thumbnail is a text input field for "radius" with the value "10" and the unit "arcmin".
- References (2563 between 1850 and 2012):** Includes a "display" button, a "reference summary" dropdown menu, and a date range selector with "from: 1850" and "to: \$currentYear".
- Measurements (11 types):** Lists various measurement types with counts: distance : 5, IRAS : 1, ISO : 28, IUE : 7, PLX : 3, posa : 2, RVel : 6, velocities : 12, XMM : 1, z : 3, ze : 2. Below the list are buttons for "display selected measurements", "display all measurements", and "clear".
- External archives:** Provides links to "Archive data at HEASARC - High-Energy Astrophysics Science Archive Research Center", "Data at NED - NASA/IPAC Extragalactic Database", and "Catalogue information from VizieR". It also includes a link for "Generic search by coordinates (radius: 30 arcsec)".
- External Catalogs:** A grid of links to various astronomical catalogs: APG 85A, APG 85, BD+47 2063, 4C 47.36A, IRAS F13277+4727; IRAS 13277+4727, KPG 379a, 2MASX J13295269+4711429, NGC 5194, 1RXS J132953.8+471143; UGC 8493, [DML87] 671.
- Annotations:** A section titled "Annotations:" with a description: "Annotations allow a user to add a note or report an error concerning the astronomical object and its data. It requires registration to post a note. See [description](#)." It also states "The list of all annotations to SIMBAD objects can be found [here](#)." and "Currently no annotations available". It includes links for "add an annotation to this object" and "report an error concerning the data of this object".

You get ...

Links to images and field charts

Plot all Simbad objects around

Plots and Images

plot

radi

References (2563 between 1850)
Simbad bibliographic survey began in 1950 for

Measurements (11 types) :

distance : 5 IRAS : 1 ISO

display selected measurements display all

External archives :

Archive data at [HEASARC - High-Energy](#)

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

Catalogue information from [VizieR](#) :

[Generic search by coordinates \(radius: 3](#)

[APG 85A](#) [APG 85](#)
[IRAS 13277+4727](#) [KPG 379a](#)
[UGC 8493](#) [\[DML87\] 6](#)

Annotations :
Annotations allow a user to add a note d
[description](#) .
The list of all annotations to SIMBAD ob

Currently no annotations available

[add an annotation to this object](#)

[report an error concerning the data of this object](#)

SIMBAD clickable map - Google Chrome

SIMBAD clickable map Options and output pa

simbad.u-strasbg.fr/simbad/sim-basic?ident=M51&submit=SIMBAD+search

simbad.u-strasbg.fr/simbad/sim-plot?target=_BLANK&ident=M++51&coo=13+29+52.698

Simbad VizieR Aladin Catalogs Dictionary Biblio Tutorials Resources

SIMBAD clickable map

Identifier query Coordinate query Criteria query Reference query Basic query Script submission Output options Help

Identifier : M 51 C.D.S. - SIMBAD4 rel 1.194 - 2012.06.18CEST11:35:40
Coordinates : 13 29 52.698+47 11 42.93
Radius : 10 arcmin

This clickable map has been made using the [Aladin](#) application.


Aladin applet
Aladin previewer
get the list of objects

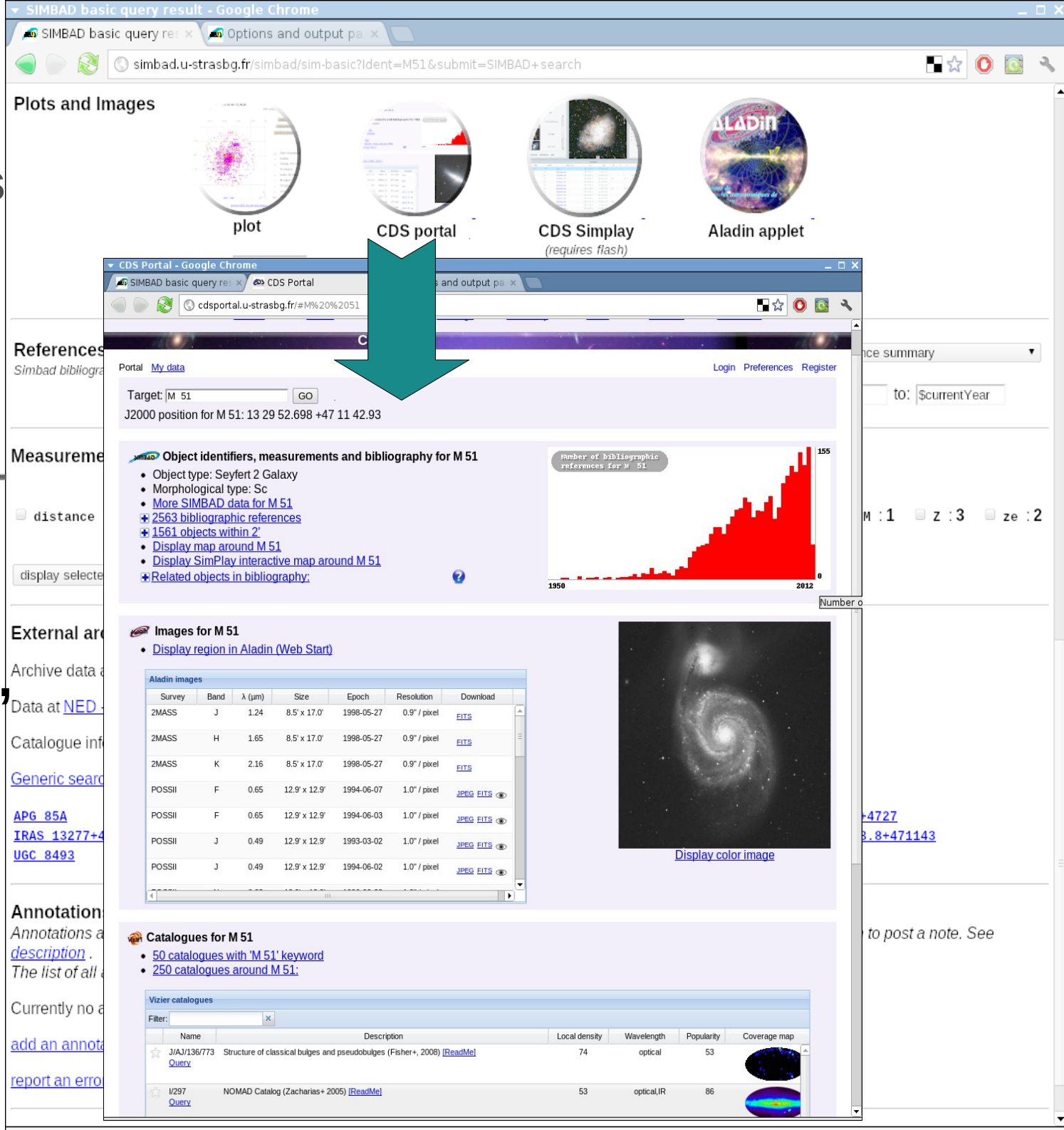
Star (+mag&pm)
Galaxy
Nebula, PN, SNR
HII region
radio, HI, Maser
IR object
UV object
X-ray object
QSO other types

get the EPS file for this image

You get ...

Links to images and field charts

Query the  for information from ALL services (Simbad, Aladin, and Vizier)



Plots and Images

- plot
- CDS portal
- CDS Simplay (requires flash)
- Aladin applet

References

Portal [My data](#) Login Preferences Register

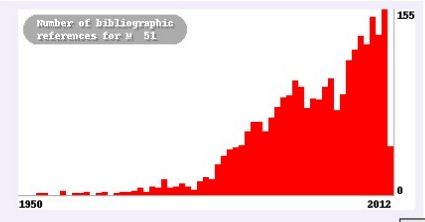
Target: M 51 GO

J2000 position for M 51: 13 29 52.698 +47 11 42.93

Object identifiers, measurements and bibliography for M 51

- Object type: Seyfert 2 Galaxy
- Morphological type: Sc
- [More SIMBAD data for M 51](#)
- [2563 bibliographic references](#)
- [1561 objects within 2'](#)
- [Display map around M 51](#)
- [Display SimPlay interactive map around M 51](#)
- [Related objects in bibliography:](#)


Number of bibliographic references for M 51



Images for M 51

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

Survey	Band	λ (μm)	Size	Epoch	Resolution	Download
2MASS	J	1.24	8.5' x 17.0'	1998-05-27	0.9" / pixel	FITS
2MASS	H	1.65	8.5' x 17.0'	1998-05-27	0.9" / pixel	FITS
2MASS	K	2.16	8.5' x 17.0'	1998-05-27	0.9" / pixel	FITS
POSSII	F	0.65	12.9' x 12.9'	1994-06-07	1.0" / pixel	JPEG FITS
POSSII	F	0.65	12.9' x 12.9'	1994-06-03	1.0" / pixel	JPEG FITS
POSSII	J	0.49	12.9' x 12.9'	1993-03-02	1.0" / pixel	JPEG FITS
POSSII	J	0.49	12.9' x 12.9'	1994-06-02	1.0" / pixel	JPEG FITS





[Display color image](#)

Catalogues for M 51

- [50 catalogues with 'M 51' keyword](#)
- [250 catalogues around M 51:](#)

Vizier catalogues

Name	Description	Local density	Wavelength	Popularity	Coverage map
J/AJ/136/773	Structure of classical bulges and pseudobulges (Fisher+, 2008) [ReadMe]	74	optical	53	
I/297	NOMAD Catalog (Zacharias+ 2005) [ReadMe]	53	optical,IR	86	

SIMBAD query result - Google Chrome

http://simbad.u-strasbg.fr/simbad/sim-id?submit=display&bibdisplay=refsum&bibyear1=2010&bibyear2=%24currentYear

References (1387 between 2000 and 2012)
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: 2000 to: \$currentYear

send the bibcodes to ADS

[2012A&A...537A.132B](#)
Astron. Astrophys., 537A, 132-132 (2012)
A comparison between star formation rate diagnostics and rate of core collapse supernovae within 11 mpc.
BOTTICELLA M.T., SMARTT S.J., KENNICUTT R.C.Jr, CAPPELLARO E., SERENO M. and LEE J.C.
Comments & notes:
flags: (abstract)

[2012A&A...537A.145S](#)
Astron. Astrophys., 537A, 145-145 (2012)
The relation between surface star formation rate density and spiral arms in NGC 5236 (M83).
SILVA-VILLA E. and LARSEN S.S.
Comments & notes:
flags: (abstract)

[2012A&A...538A..89C](#)
Astron. Astrophys., 538A, 89-89 (2012)
The EMIR multi-band mm-wave receiver. for the IRAM 30-m telescope.
CARTER M., LAZAREFF B., MAIER D., CHENU J.-Y., FONTANA A.-L., BORTOLOTTI Y., BOUCHER C., NAVARRINI A., BLANCHET S., GREVE A., JOHN D., KRAMER C., MOREL F., NAVARRO S., PENALVER J., SCHUSTER K.F. and THUM C.
Comments & notes:
flags: (abstract)

[2012A&A...538A.152Z](#)
Astron. Astrophys., 538A, 152-152 (2012)
Radio properties of H₂O maser host galaxies.
ZHANG J.S., HENKEL C., GUO Q. and WANG J.
Comments & notes:
flags: (abstract)

[2012A&A...539A.123B](#)
Astron. Astrophys., 539A, 123-123 (2012)
Cleaning spectroscopic samples of stars in nearby dwarf galaxies. The use of the nIR Mg I line to weed out Milky Way contaminants.
BATTAGLIA G. and STARKENBURG E.
Comments & notes:
flags: (abstract)

[2012A&A...540A..93V](#)
Astron. Astrophys., 540A, 93-93 (2012)
Improved distance determination to M 51 from supernovae 2011dh and 2005cs.
VINKO J., TAKATS K., SZALAI T., MARION G.H., WHEELER J.C., SARNECZKY K., GARNAVICH P.M., KELEMEN J., KLAGYIVIK P., PAL A., SZALAI N. and VIDA K.
Comments & notes:
notes: Paragraph 5. NGC 2404 is a misprint for NGC 2403.
flags: (abstract)

[2012AJ....143...19V](#)
Astron. J., 143, 19 (2012)
Supernova 2008bk and its red supergiant progenitor.
VAN DYK S.D., DAVIDGE T.J., ELIAS-ROSA N., TAUBENBERGER S., LI W., LEVESQUE E.M., HOWERTON S., PIGNATA G., MORRELL N., HAMUY M.

You get ...

Bibliographical references

Choose « **reference summary** » to display information on the bibliography on this object

You get ...

Bibliographical references

You get more details on each reference :
abstract from CDS or ADS,
links on Simbad objects, catalogs, comments ...

References (1387 between 2000 and 2012)

display reference summary

from: 2000 to: \$currentYear

send the bibcodes to ADS

[2012A&A...537A.132B](#)
Astron. Astrophys., 537A, 132-132 (2012)
A comparison between star formation rate diagnostics and rate of core collapse supernovae within 11 mpc.
BOTTICELLI T., SMARTT S.J., KENNICUTT R.C.Jr., CAPPELLARO E., SERENO M. and LEE J.C.
Comments & notes:
flags: (abstract)

[2012A&A...537A.132B](#)
Astron. Astrophys., 537
The relation between
SILVA-VILLA E. and LA
Comments & notes:
flags: (abstract)

[2012A&A...538A..89C](#)
Astron. Astrophys., 538
The EMIR multi-band
CARTER M., LAZAREF
KRAMER C., MOREL F
Comments & notes:
flags: (abstract)

[2012A&A...538A.152Z](#)
Astron. Astrophys., 538
Radio properties of H
ZHANG J.S., HENKEL
Comments & notes:
flags: (abstract)

[2012A&A...539A.123B](#)
Astron. Astrophys., 539
Cleaning spectroscop
BATTAGLIA G. and ST
Comments & notes:
flags: (abstract)

[2012A&A...540A..93V](#)
Astron. Astrophys., 540
Improved distance de
VINKO J., TAKATS K.,
VIDA K.
Comments & notes:
notes: Paragraph 5. N
flags: (abstract)

[2012AJ....143...19V](#)
Astron. J., 143, 19 (201
Supernova 2008bk an
VAN DYK S.D., DAVID

CDS bibliographic service - Google Chrome

cdsbib.u-strasbg.fr/cgi-bin/cdsbib?2012A%26A...540A..93V

CDS bibliographic service

[WORD QUERY FORM](#) [BIBCODE QUERY FORM](#) [HELP](#)

[2012A&A...540A..93V](#) - Astron. Astrophys., 540A, 93-93 (2012) - 11.05.12 12.06.12 April(I) 2012

Improved distance determination to M 51 from supernovae 2011dh and 2005cs.

VINKO J.; TAKATS K.; SZALAI T.; MARION G.H.; WHEELER J.C.; SARNECZKY K.; GARNAVICH P.M.; KELEMEN J.; KLAGYIVIK P.; PAL A.; SZALAI N.; VIDA K.

Abstract (from CDS): The appearance of two recent supernovae, SN 2011dh and 2005cs, both in M51, provides an opportunity to derive an improved distance to their host galaxy by combining the observations of both SNe. We apply the Expanding Photosphere Method to get the distance to M51 by fitting the data of these two SNe simultaneously. In order to correct for the effect of flux dilution, we use correction factors (Z) appropriate for standard type II-P SNe atmospheres for 2005cs, but find $Z \sim 1$ for the type IIb SN 2011dh, which may be due to the reduced H-content of its ejecta. The EPM analysis resulted in $D_{M51} = 8.4 \pm 0.7$ Mpc. Based on this improved distance, we also re-analyze the HST observations of the proposed progenitor of SN 2011dh. We confirm that the object detected on the pre-explosion HST-images is unlikely to be a compact stellar cluster. In addition, its derived radius ($\sim 277 R_{\odot}$) is too large for being the real (exploded) progenitor of SN 2011dh. The supernova-based distance, $D = 8.4$ Mpc, is in good agreement with other recent distance estimates to M51.

Abstract Copyright: European Southern Observatory (ESO) 2012

Journal keyword(s): supernovae: individual: [2011dh](#) - supernovae: individual: [2005cs](#) - galaxies: individual: [M51](#) - galaxies: distances and redshifts

Simbad comments: Paragraph 5. NGC 2404 is a misprint for NGC 2403.

Simbad objects (6)

Link(s): [Full paper](#) · [ADS services](#)

©UDS/CNRS Contact:

You get ...

Measurements (11 types):

distance : 5
 IRAS : 1
 ISO : 28
 IUE : 7
 PLX : 3
 posa : 2
 Rvel : 6
 velocities : 12
 XMM : 1
 z : 3
 ze : 2

distance (5)

distance	Q	unit	err-	err+	method	reference
6.2		Mpc				2007AJ...133..791S
8.0		Mpc				2004AJ...127.2031K
7.53		Mpc			redshift	2007ApJ...655..790C
8.4		Mpc				2007ApJS...173..185G
7.7		Mpc				2004ApJ...602..231C

iras (1)

RA (1950)	DEC (1950)	err	ang	f12	f25	f60	f100	e12e25e60e10	conf	v	ns	na	reference
13 27 45.3	+47 27 25	20	6 127	1.36	2.38	32.00	122.90	8 9 14 10	--c-	2	0	13	1988NASAR1190...1B

iue (7)

Homogenized Name:	CompID	PROG	CL	D	CAM	IMAGE	A	FES	MD	Obs.da	Time	ExpTim	m	CEB	S	Comments	F	reference
NGC 5194	:	PB188	80	L	SWP	07802	L	50	FO	800129	085000	012300		202	V	5	*	1996IUML.C.....0I
NGC 5194	:	EGDJC	80	L	SWP	15893	L	200	SO	811227	231500	024000		336	G	E=114,C=115,B=72	*	1996IUML.C.....0I
NGC 5194	:	EGDJC	80	L	LWR	12237	L	192	SO	811230	195700	018000		305	G	C=155,B=68	*	1996IUML.C.....0I
BD +47 2063	:	PHCAL	80		FES	02537	2			920320	024000	000300			G		*	1996IUML.C.....0I
BD +47 2063	:	LI0GR	80	L	SWP	45057	L		BO	920702	222000	043500		309	G	C=175,B=102	*	1996IUML.C.....0I
BD +47 2063	:	LI0GR	80	L	LWP	23430	L		BO	920704	034800	024600		309	G	C=195,B=101	*	1996IUML.C.....0I
BD +47 2063	:	PQ066	88	E	FES	02556	L		BO	920702	222000	043500		309	G	C=195,B=101	*	1996IUML.C.....0I

plx (3)

plx	m.e	R	reference
0.005:013			1952GCTP..C.....0J
0.008:017			1995GCTP..C.....0V
0.005:013 W			1952GCTP..C.....0J

posa (2)

alpha	delta	MajAxis	MinAxis	PA	equi	epoch	reference
13 29 52.35	+47 11 53.8	1.25	1.25	0	2000	1950.0	1989
13 29 56	+47 14.1	150.0	150.0	0	2000	1950.0	1989

rvel (6)

Rvel	(nmes)	rem	dis	reference
+445	()			1973UGC...C.....0N
+463	()			2007ApJ...655..790C
+463	()			1997ApJS...112..315H
+463	()			1995ApJS...96..123T
+463	()			1995ApJS...98..477H
+559	()			1993A&AS..100...47G

velocities (12)

typ	value	R	m.e.	A (Nmes)	na,Q,dom	res D	Obs.date	Rem.
cz	465		61	()	s , D , Opt ,			
z	0.001544		0.000010	()	, , , , ,			
z	0.002000			()	, , , , ,			
z	0.002			()	, , , , ,			
z	0.0018			()	, , , , ,			

LWP23430LL.FITS Browse Plot - Google Chrome

Summary

Object	BD +47 2063
RA(1950)	13 27 48.0
Dec(1950)	+47 27 00
Obs Date	04/07/92
Obs Time	03:48:21
Exp Time(s)	24599.510
Dispersion	LOW
Aperture	LARGE

Measurements

You get ...

VizieR Detailed Page - Google Chrome
vizieR.u-strasbg.fr/viz-bin/VizieR-S?UGC%208493

VizieR Detailed Page
Uppsala General Catalogue of Galaxies (UGC) (Nilson 1973)
UGC catalogue (12939 rows) [ReadMe+ftp](#) UGC===8493

[Post annotation about this record](#)

Column	Value	Explain (UCD)
_RAJ2000	13 29.9 "h:m:s"	Right ascension (FK5, Equinox=J2000.0) (computed by VizieR, not part of the original data) (pos.eq.ra)
_DEJ2000	+47 12 "d:m:s"	Declination (FK5, Equinox=J2000.0) (computed by VizieR, not part of the original data) (pos.eq.dec)
_RAB1950	13 27.8 "h:m:s"	Right ascension (FK4, Equinox=B1950.0) (computed by VizieR, not part of the original data) (pos.eq.ra)
_DEB1950	+47 27 "d:m:s"	Declination (FK4, Equinox=B1950.0) (computed by VizieR, not part of the original data) (pos.eq.dec)
_Glon	104.84 deg	Galactic longitude (computed by VizieR, not part of the original data) (pos.galactic.lon)
_Glat	+68.56 deg	Galactic latitude (computed by VizieR, not part of the original data) (pos.galactic.lat)

distance : 5

display selected meas

External archives:

Archive data at [HEAD](#)

Data at [NED - NASA](#)

Catalogue information

[Generic search by column](#)

[APG 85A](#)

[IRAS 13277-4727](#)

[UGC 8493](#)

[Link](#) **Position** Arcsecond position by Cotton and Condon ([1999ApJS..125..409C](#)) ([meta.ref](#))

[VIII/26D/errors](#) Uppsala General Catalogue of Galaxies (UGC) (Nilson 1973)
The changes made by the ADC in 1995 (133 rows) [ReadMe+ftp](#) UGC===8493

[Post annotation about this record](#) ⚠ (No record found !?!?!?)

[Thanks for acknowledging the VizieR Service](#) ©UDS/CNRS Contact: ✉

Annotations :
Annotations allow a [description](#) .
The list of all annotations

Currently no annotations

[add an annotation to this object](#)

[report an error concerning the data of this object](#)

Links to external archives and original catalogs in VizieR service

Customize the output

Check the data you want to display on your web page

Options and output parameters - Google Chrome

simbad.u-strasbg.fr/simbad/sim-fout

Options and output parameters

other query modes : [Identifier query](#) [Coordinate query](#) [Criteria query](#) [Reference query](#) [Basic query](#) [Script submission](#) [Output options](#) [Help](#)

SAVE RESET DEFAULTS http method : POST GET

You need to click the save button in order to have the options available on the other pages.

Data	object display	list display	Options
Output format			HTML <input type="checkbox"/> file output <input type="checkbox"/> compressed
Max. # of objects			maximum 10000
Identifier	all	<input checked="" type="checkbox"/>	main identifier <input type="text"/> cat list: <input type="text"/>
Object type	always	<input checked="" type="checkbox"/>	format: short abbreviation <input type="checkbox"/> display all types (short abbrev.)
Coordinates 1	always	<input checked="" type="checkbox"/>	ICRS epoch: J2000 equinox: 2000 format: sexagesimal
Coordinates 2	<input type="checkbox"/>	<input type="checkbox"/>	FK5 epoch: J2000 equinox: 2000 format: sexagesimal
Coordinates 3	<input type="checkbox"/>	<input type="checkbox"/>	FK4 epoch: B1950 equinox: 1950 format: sexagesimal
Coordinates 4	<input type="checkbox"/>	<input type="checkbox"/>	Galactic epoch: J2000 equinox: 2000 format: decimal
Proper motions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Parallax	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Radial velocity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	display as in database <input type="checkbox"/> redshift <input checked="" type="checkbox"/> radial velocity <input checked="" type="checkbox"/> cz velocity <input checked="" type="checkbox"/>
Fluxes/Magnitudes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	display in lists : (in a full object display, all fluxes are displayed) <input type="checkbox"/> U <input type="checkbox"/> B <input type="checkbox"/> V <input type="checkbox"/> R <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> H <input type="checkbox"/> K <input type="checkbox"/> u <input type="checkbox"/> g <input type="checkbox"/> r <input type="checkbox"/> i <input type="checkbox"/> z
Spectral type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Morphological type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Angular size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hierarchy links	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bibliography	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	from: 2000 to: \$currentYear from journals: <input type="text"/> in objects, display number of references <input type="checkbox"/> display ref. comments <input type="checkbox"/> tabular display <input type="checkbox"/> <small>Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar system). \$currentYear can be used to specify dynamically the current year.</small>
Notes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	in objects, display only essential notes
Measurements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	catalog list: <input type="text"/> display # of measurements
External archive links	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SIMBAD: Query by criteria - Google Chrome

simbad.u-strasbg.fr/simbad/sim-fsam

SIMBAD: Query by criteria

other query modes : [Identifier query](#) [Coordinate query](#) [Criteria query](#) [Reference query](#) [Basic query](#) [Script submission](#) [Output options](#) [Help](#)

Enter a search expression:

otypes="BH?"

submit query clear

Enter the name of an ASCII file containing a search expression:

Choisissez un fichier Aucun fichier choisi

submit file clear

Description of the queryable fields (254) :

creationdate	creation date of the object (format 'MM/DD/YYYY')	= / != / < / <= / > / >= / in	sptypes	all spectral types which include the definition (i.e. sptypes = 'K0' will also get all objects having 'K0III', ... as spectral type) More info	= / != / > / >= / in
modifdate	last modification date of the object (format 'MM/DD/YYYY')	= / != / < / <= / > / >= / in	splum	criterion using only a luminosity class ('III', 'IV/V', ...) More info	= / != / > / >= / in
pm	proper motion (mas)	< / <= / > / >=	spprec	criterion using only spectral type peculiarities ('ap', 'cn', ...) More info	= / != / in
pmqual	proper motions quality (A:best, E:worst)	= / != / in	spqual	spectral type quality (A:best, E:worst)	= / != / > / >= / in
plx	parallax (mas)	= / != / < / <= / > / >=	spstring	spectral type string (can be less easy to use)	none
plxqual	parallax quality (A:best, E:worst)	= / != / in	mttype	morphological type	= / != / ~ /
rvtype	radial velocity type as the value was entered in the database ('v' = radial velocity, 'z' = redshift, 'c' = cz velocity)	= / !=	mtqual	morphological type quality (A:best, E:worst)	= / != / in
radvel	radial velocity (km/s)	= / != / < / <= / > / >=	dimmajor	major axis of the dimension (arcmin)	= / != / < / <= / > / >=
redshift	redshift	= / != / < / <= / > / >=	dimminor	minor axis of the dimension (arcmin)	= / != / < / <= / > / >=
cz	'cz' velocity	= / != / < / <= / > / >=	dimangle	angle of the major axis to the north pole (?)	= / != / < / <= / > / >=
rvqual	radial velocity or redshift quality (A:best, E:worst)	= / != / in	dimincl	angle of the major axis to the north pole (?)	= / != / < / <= / > / >=
sptype	exact spectral type: returns only the objects having the requested spectral type (i.e. sptype = 'K0' does not return 'K0III',...) More info	= / != / > / >= / < / <= / in	dimqual	dimension quality (A:best, E:worst)	= / != / in
Criteria based on Coordinates					
coobox	coordinate box number	= / != / < / <= / > / >=	rah	right ascension (decimal hours) >= 0.0 and < 24.0	< / <= / > / >=

Use the [Help](#) link to see examples

Criteria query

Write your selection criteria according to fields listed