

Le travail des documentalistes au CDS



Bibliographical Team

Soizick Lesteven / Cécile Loup

References

Year, journal, volume, pages,
title, authors, abstract, keyword,
bibcode, copyright, DOI

From publishers to SIMBAD

Soizick Lesteven
Magali Neuville



SIMBAD update

Extraction of information from articles
Objects, identifiers, fundamental data,
measurements, references,

Aline Eisele : A&A, PASJ, PASP, ...
Magali Neuville : ApJ, ApJS, Sci, Natur, ...
Evelyne Son : AJ, MNRAS
Philippe Vonflie : MNRAS

SIMBAD

Tables

VizieR

Standardization and
description of tables.
VizieR update

Marianne Brouty : ApJ
Sylvain Guéhéneux : AJ, ApJ
Emmanuelle Perret : ApJS, ApJ
Patricia Vannier : A&A, MNRAS, ...



=g=

SIMBAD update

Via electronic tables
(selections, extractions, scripts,
cross-identifications)

Catherine Brunet
Mihaela Buga
Emmanuelle Perret
Fabienne Woelfel

SIMBAD

Dictionary of Nomenclature

Dictionary update
(analysis, creation and update
of acronyms)
Update links to NED database

Marianne Brouty
Fabienne Woelfel

Scientific Expertise

SIMBAD : C. Loup, C. Bot, L. Cambrésy, A. Nebot, P. Ocvirk, A. Siebert, B. Vollmer

Dictionary : B. Vollmer

VizieR : P. Ocvirk, C. Bot

IT Development

SIMBAD : A. Oberto, S. Lesteven, T. Delacour, V. Kaestle

Dictionary : A. Oberto

VizieR : G. Landais, T. Boch, F.-X. Pineau

DJIN - 2010ApJ...716L109M

File Name Identifier Search Configuration Help

Journal: Apj Volume: 716 Bibcode: 2010ApJ...716L109M

17 object names (48)

- 4U 1728-34 (1)
- Aql X-1 (23)
- AqlX-1 (1)
- AQUILA X-1 (3)
- Cir X-1 (3)
- Crab Nebula (1)
- Cyg X-1 (1)
- Galactic bulge (1)
- H-1521 (1)
- J1907+0127 (2)
- J1920-0236 (1)
- J2000 (2)
- J1907+0127 (2)
- J1920-0236 (1)
- K7V (1)
- L109 (1)
- Sco X-1 (3)

EVOLUTION OF THE RADIO-X-RAY COUPLING THROUGHOUT AN ENTIRE OUTBURST OF **AQUILA X-1**

Authors

J. C. A. Miller-Jones, G. R. Sivakoff, D. Altamirano, V. Tudose, S. Migliari, V. Dhawan, R. P. Fender, M. A. Garrett, S. Heinz, E. G. Kording, H. A. Krimm, M. Linares, D. Maitra, S. Markoff, Z. Paragi, R. A. Remillard, M. P. Rupen, A. Rushton, D. M. Russell, C. L. Sarazin, and R. E. Spencer

Abstract

ABSTRACT The 2009 November outburst of the neutron star X-ray binary **Sco X-1** (**Aql X-1**) was observed with unprecedented radio coverage and simultaneous pointed X-ray observations, tracing the radio emission around the full X-ray hysteresis cycle. We find that the radio emission is coupled to the X-ray emission, finding the radio emission to be consistent with the X-ray emission in both the hard and soft states and vice versa. Our data show that the X-ray luminosity of $\sim 10\%$ of the Eddington luminosity is sufficient to drive the radio emission via interferometry, showing that any discrete, compact knots in the radio emission are being flat or slightly inverted, and that the radio ejection is consistent with the observed radio ejecta in black hole X-ray binaries.

Keywords

Key words: machines

1. INTRODUCTION

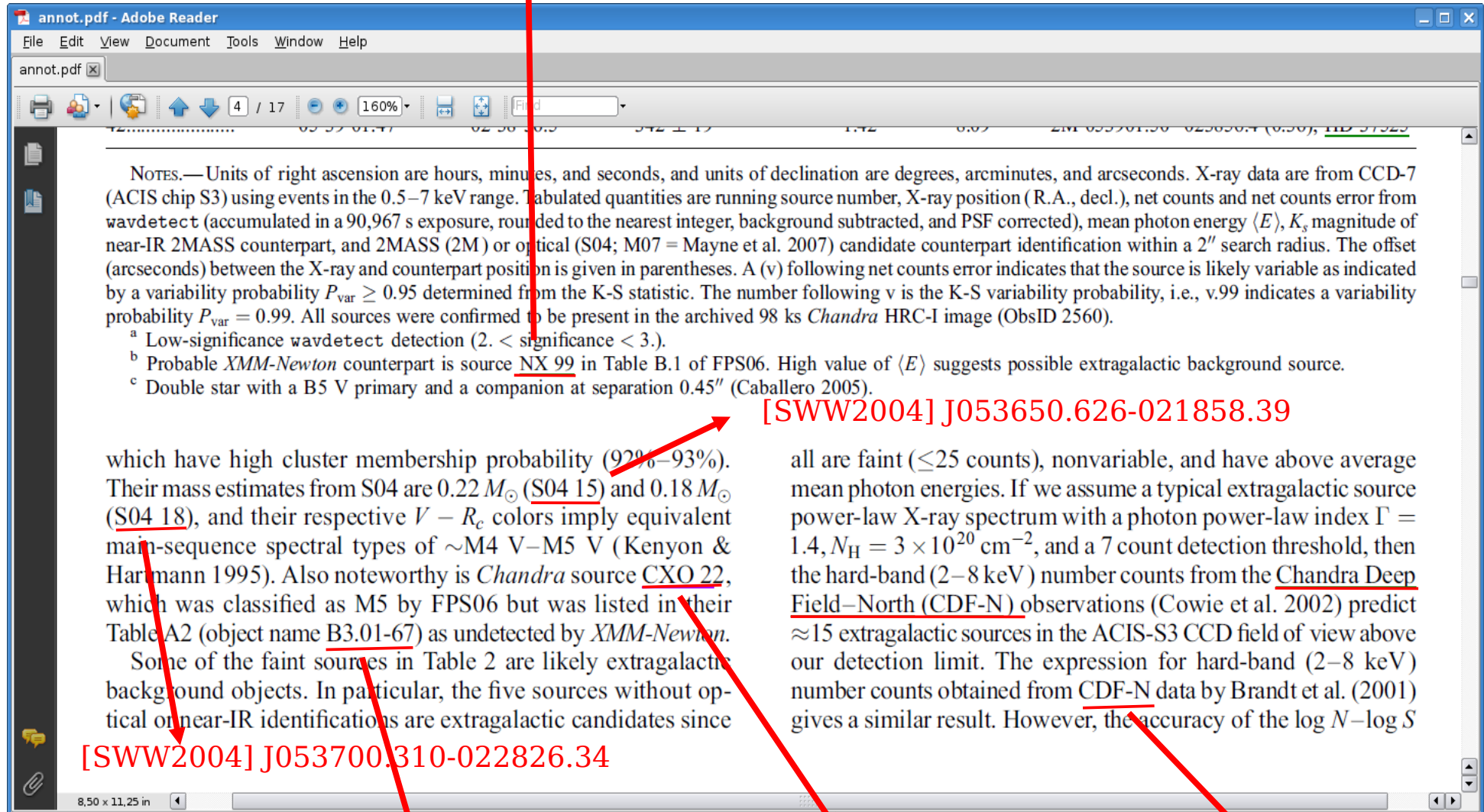
Text

Multi-wavelength observations of the outburst cycle of Sco X-1 (Aql X-1) show that the fundamental coupling between the radio and X-ray emission is characteristic X-ray spectral and radio emission are launched from the inner regions of the disk-jet system. Evidence for this accretion-ejection coupling is provided by the presence of steady jets in the hard state and the detection of discrete knots in the radio emission when the source makes a transition from the hard to the soft state (Fender et al. 2000), observed as discrete knots in the X-ray spectral state, whereupon the core of the jet transitions from the hard to the soft state, implying a hysteresis in the outburst cycle (Maccarone & Coppi 2003). Compact jets are also inferred to exist in neutron star (NS) systems, from brightness temperature arguments, the observed flat-spectrum radio emission, and the detection of a jet break in broadband spectra (Migliari et al. 2006, 2010). Rapid energy transfer from the core to detached radio lobes (Fomalont et al. 2001; Fender et al. 2004a) also argues strongly for the existence of jets in NS systems, although their compact jets have not been directly imaged, as in BH systems (Dhawan et al. 2000; Stirling et al. 2001). Since NS XRBs are typically fainter radio emitters than their BH counterparts at the same X-ray luminosity (Fender & Kuulkers 2001; Migliari & Fender 2006), the nature of the disk-jet coupling in NS systems is consequently less well understood. Migliari & Fender (2006) made a systematic study of radio emission from NS XRBs, finding evidence for steady jets in hard state systems at low luminosities ($<1\%$ of the Eddington luminosity).

Status processed Question Raw idents Bibcode



[FPS2006] NX 99



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File Edit View Document Tools Window Help

annot.pdf

4 / 17 160%

NOTES.—Units of right ascension are hours, minutes, and seconds, and units of declination are degrees, arcminutes, and arcseconds. X-ray data are from CCD-7 (ACIS chip S3) using events in the 0.5–7 keV range. Tabulated quantities are running source number, X-ray position (R.A., decl.), net counts and net counts error from *wavdetect* (accumulated in a 90,967 s exposure, rounded to the nearest integer, background subtracted, and PSF corrected), mean photon energy $\langle E \rangle$, K_s magnitude of near-IR 2MASS counterpart, and 2MASS (2M) or optical (S04; M07 = Mayne et al. 2007) candidate counterpart identification within a $2''$ search radius. The offset (arcseconds) between the X-ray and counterpart position is given in parentheses. A (v) following net counts error indicates that the source is likely variable as indicated by a variability probability $P_{\text{var}} \geq 0.95$ determined from the K-S statistic. The number following v is the K-S variability probability, i.e., v.99 indicates a variability probability $P_{\text{var}} = 0.99$. All sources were confirmed to be present in the archived 98 ks *Chandra* HRC-I image (ObsID 2560).

- ^a Low-significance *wavdetect* detection ($2. < \text{significance} < 3.$).
- ^b Probable *XMM-Newton* counterpart is source NX 99 in Table B.1 of FPS06. High value of $\langle E \rangle$ suggests possible extragalactic background source.
- ^c Double star with a B5 V primary and a companion at separation $0.45''$ (Caballero 2005).

which have high cluster membership probability (92%–93%). Their mass estimates from S04 are $0.22 M_{\odot}$ (S04 15) and $0.18 M_{\odot}$ (S04 18), and their respective $V - R_c$ colors imply equivalent main-sequence spectral types of $\sim M4 V - M5 V$ (Kenyon & Hartmann 1995). Also noteworthy is *Chandra* source CXO 22, which was classified as M5 by FPS06 but was listed in their Table A2 (object name B3.01-67) as undetected by *XMM-Newton*.

Some of the faint sources in Table 2 are likely extragalactic background objects. In particular, the five sources without optical or near-IR identifications are extragalactic candidates since

all are faint (≤ 25 counts), nonvariable, and have above average mean photon energies. If we assume a typical extragalactic source power-law X-ray spectrum with a photon power-law index $\Gamma = 1.4$, $N_{\text{H}} = 3 \times 10^{20} \text{ cm}^{-2}$, and a 7 count detection threshold, then the hard-band (2–8 keV) number counts from the Chandra Deep Field–North (CDF-N) observations (Cowie et al. 2002) predict ≈ 15 extragalactic sources in the ACIS-S3 CCD field of view above our detection limit. The expression for hard-band (2–8 keV) number counts obtained from CDF-N data by Brandt et al. (2001) gives a similar result. However, the accuracy of the $\log N - \log S$

[SWW2004] J053650.626-021858.39

[SWW2004] J053700.310-022826.34

[KJN2005] 3.01 67

[SSC2008] 22

NAME CDF-N

Dictionnaire de nomenclature



Recherche [DCD2013] [chercher] [fulltext] [créer main] [créer amas] [quitter tous] [valider tous] [sauv]

raz tout Aja %M %U %I %W syn %W descr notes refs [fusion] [expl]

> Sélectionné '[DCD2013]'

Vizier [NED] Console historique Liste [DCD2013]

[supprimer] [dupliquer] [quitter] [annuler] [defaire] [refaire] [afficher]

[basique] [simbad] [formats] [remarques] [divers] [references]

Acronyme [%M] [DCD2013]	<input checked="" type="checkbox"/> Nombre d'objets [%N] 12227+2040+1207	Dates [%C] création 2013.05.30 mise à jour 2016.11.29	<input type="checkbox"/> Statut d'impression [%C] <input type="checkbox"/> =0= <input type="checkbox"/> Don't print <input type="checkbox"/> =1= <input type="checkbox"/> L
Type d'acronyme [%t] <input checked="" type="radio"/> main <input type="radio"/> amas	Versions [%v] 1.2 - 29-Nov-2016 - Ajout e-version: J/ApJ/763/32/ 1.1 - 11-Feb-2015 - Ajout e-version: J/ApJ/765/154/ + %g added 1.0 - 30-May-2013 - Creation		Synonymes [%V] ↑ ↓ □ ☒ ✕ (CSS)
<input type="checkbox"/> Nom d'usage [%U]	<input checked="" type="checkbox"/> Description [%E] Drake + CateLAN + Djorgovski+, 2013		
<input type="checkbox"/> Use/Equiv [%i] ... <input type="radio"/> use <input type="radio"/> eq.	<input checked="" type="checkbox"/> Origine [%H] <input checked="" type="radio"/> Simbad <input type="radio"/> UAI <input type="radio"/> Dictionnaire <input type="radio"/> Auteur <input type="radio"/> Litterature Infos:	<input type="checkbox"/> Suivi [%h] <input type="radio"/> Remplace <input type="radio"/> Remplacé par Commentaire Texte libre	[separer]
<input type="checkbox"/> Commentaire interne [%c]	Inclus dans [%W]		
<input checked="" type="checkbox"/> Acronyme SIMBAD [%i] [DCD2013]	<input type="checkbox"/> Statut d'intégration [%s] <input type="checkbox"/> entièrement intégré ou statut de l'intégration:		

Dictionary of Nomenclature of Celestial Objects

Details on Acronym: [DCD2013]

[DCD2013] (Drake+CateLAN+Djorgovski+, 2013) = (CSS)

Write: <<[DCD2013] CSS JHHMMSS.s+DDMMSS>>
<<[DCD2013] MLS JHHMMSS.s+DDMMSS>>

N: 12227+2040+1207

Object: RRLyr ([SIMBAD class](#): RRLyr = Variable Star of RR Lyr type)

Note: N=12227+2040+1207 RR Lyrae from the Catalina Surveys Data Release 1 (see <http://nessi.cacr.caltech.edu/DataRelease/index1.html>) and also <http://nessi.cacr.caltech.edu/DataRelease/RRL.html>), that used observations from the Catalina Sky Survey 0.7m Schmidt (CSS), and Mt. Lemmon Survey 1.5m Cass (MLS) telescopes.

Ref: =2013ApJ...763...32D

by DRAKE A.J., CATELAN M., DJORGOVSKI S.G., TORREALBA G., GRAHAM M.J., BELOKUROV V., KOPOSOV S.E., MAHABAL A., PRIETO J.L., DONALEK C., WILLIAMS R., LARSON S., CHRISTENSEN E., BESHORE E.

Astrophys. J., 763, 32 (2013)

Probing the outer galactic halo with RR Lyrae from the Catalina surveys.

o Tables 1-2: <[DCD2013] CSS JHHMMSS.s+DDMMSS> N=12227.


VizieR



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{\use{vPop}\ucd{NUMBER}Number of control times}
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%\vizFKlink{ file }{ column }{ link explanation }
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%\vizSimK{ file }{ field(s) from SIMBAD Connection}
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%\vizLEDAName{ file }{ +/-col file_or_script }
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%%15/28 pas dans NED...
%\vizNEDname{ file }{ +/-col file_or_script }
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% \aFile{@{@cat}/fits/@{*FileName}}{@{}}{ Download the FITS file }
#####
    
```

Catalog Selection Page

J/ApJ/811/117 R-band PTF observations of SNe IIB (Strotjohann+, 2015) 

timeSerie Similar Catalogs 2015ApJ...811.117S ReadMe+ftp

J/ApJ/811/117/table1 (c)Supernova sample (28 rows)

J/ApJ/811/117/table2 PTF observations (3247 rows)

J/ApJ/811/117/table4 Precursor search control time (378 rows)

Reset All

ALL

(c) indicates tables which contain celestial coordinates

File Summary

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
table1.dat	120	28	Supernova sample
table2.dat	73	3247	PTF observations
table4.dat	32	378	Precursor search control time

ReadMe

See also:

- [II/313](#) : Palomar Transient Factory (PTF) photometric catalog 1.0 (Ofek+, 2012)
- [J/A+A/580/A142](#) : SN 2011dh. The first two years (Ergon+, 2015)
- [J/A+A/562/A17](#) : SN 2011dh - The first 100 days (Ergon+, 2014)
- [J/other/Nat/494.65](#) : SN 2010mc outburst before explosion (Ofek+, 2013)
- [J/ApJ/778/L19](#) : SN 2011dh (type IIB) 3.6 & 4.5um light curves (Helou+, 2013)
- [J/other/PZ/32.6](#) : UVRI light curves of SN 2011dh (Tsvetkov+, 2012)
- [J/ApJ/742/L18](#) : Follow-up photometry of the SN IIB PTF 11eon (Arcavi+, 2011)
- [J/other/PZ/29.2](#) : SN 2008ax UVRI light curves (Tsvetkov+, 2009)
- [J/ApJ/696/870](#) : Catalina Real-time Transient Survey (CRTS) (Drake+, 2009)

Byte-by-byte Description of file: [table1.dat](#)

Bytes	Format	Units	Label	Explanations
1	A1	---	l_Name	[l] l: SN added to our sample from the literature
3-10	A8	---	Name	SN identifier
12-19	A8	---	PTF	Other PTF name
21-30	F10.6	deg	RAdeg	Right ascension in decimal degrees (J2000)
32-41	F10.6	deg	DEdeg	Declination in decimal degrees (J2000)
43-50	F8.6	---	z	[0.0016/0.05] SN redshift obtained from spectroscopy
52-56	F5.2	mag	DM	[29.4/36.8] Distance modulus (1)
58-62	F5.3	mag	E(B-V)	[0.01/0.2] Galactic extinction taken from Schlegel et al. (1998ApJ...500...525S)
64-68	F5.1	mag	RMag	? Absolute R-band magnitude of the brightest detection (Mr_peak)
69	A1	---	f_RMag	[*] *: peak is not well observed and the SN might be considerably brighter
71-75	I5	d	t0	[55079/56713] MJD of the approximate explosion date (t0) (2)
77-81	I5	d	tpk	? MJD of the brightest detection (t_peak) (3)
83-87	F5.3	---	FAP	[0/0.97] False-alarm probability (4)
89	A1	---	DP	Two peaks in the light curve? (5)
91	A1	---	l_tper	Limit flag on tper
92-96	I5	d	tper	The chosen reference period (6)
98-120	A23	---	Ref	Reference(s) (7)

The 6 columns in **color** are computed by VizieR, and are **not part of the original data**.

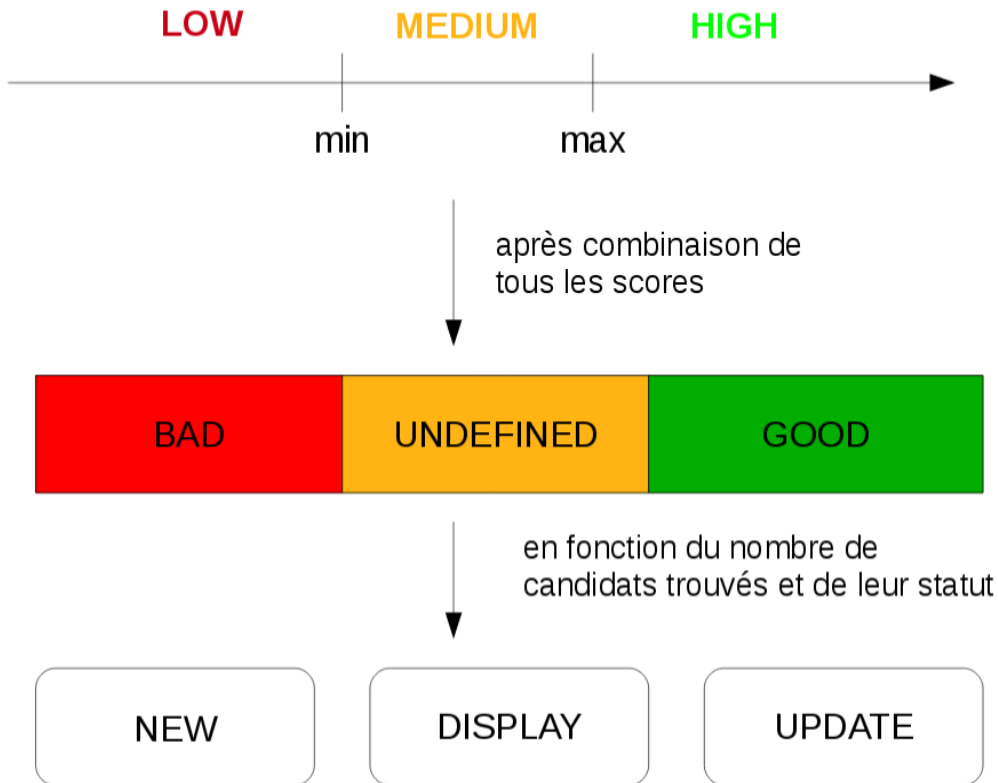
[J/ApJ/811/117/table1](#) R-band PTF observations of SNe IIB (Strotjohann+, 2015)  [ReadMe+ftp](#)

[Post annotation](#) Supernova sample (28 rows) [2015ApJ...811.117S](#)

start AladinLite

Full	RAJ2000 "h:m:s"	DEJ2000 "d:m:s"	l	Name	z	RMag f mag	Nobs	Np	Ref	LC Simbad
1	23 08 34.729	+18 56 13.67		PTF09dxv	0.032200	-18.0	*	61	3 A10	LC Simbad
2	01 58 56.759	-07 16 56.90		SN2009nf	0.046000	-17.6		22	4 A10,D09	LC Simbad
3	23 01 52.823	+14 24 48.72		PTF09hnq	0.027000	-17.5	*	79	7	LC Simbad
4	11 44 35.871	+10 12 43.71		PTF09ism	0.030000	-17.4		78	6 A10	LC Simbad
5	12 41 49.859	+11 35 28.11		PTF10fqg	0.027800	-16.6		45	6	LC Simbad
6	23 09 52.830	+13 07 57.24		PTF10qrl	0.039600	-17.0		51	11	LC Simbad
7	17 09 12.240	+11 45 12.50		PTF10...	0.024000	-16.2	*	24	17	LC Simbad

COSIM



```
BEGIN {
#table Vizier? ajouter le FS="|"
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#Bibcode
print ".B 2012AJ....144....4M"
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}
{
if($35!~/The Galaxy/){
#identificateur
print "%I.0 "$35
print "%I.R "$3

#coordonnées
print "%J "$5 " "$6

#types morphologiques
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#vitesse radiale
if($9!~/^ *$ /) print "%V v:s " $9 " [" $11 "]" C 2012AJ....144....4M"

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    else if($19<$20) print "%M V "$17 " ["$20]" D 2012AJ....144....4M"
}

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    print "%H.p NAME M31 Group!, 100 B 2012AJ....144....4M"
}
else if($2~/N/) print "%H.p NAME Local Group!, 0 B 2012AJ....144....4M"

print ""
}
}
```



Bibliographical Team

Soizick Lesteven / Cécile Loup

References

Year, journal, volume, pages,
title, authors, abstract, keyword,
bibcode, copyright, DOI

From publishers to SIMBAD

Soizick Lesteven
Magali Neuville



SIMBAD update

Extraction of information from articles
Objects, identifiers, fundamental data,
measurements, references,

Aline Eisele : A&A, PASJ, PASP, ...
Magali Neuville : ApJ, ApJS, Sci, Natur, ...
Evelyne Son : AJ, MNRAS
Philippe Vonflie : MNRAS

SIMBAD

Tables

VizieR

Standardization and
description of tables.
VizieR update

Marianne Brouty : ApJ
Sylvain Guéhéneux : AJ, ApJ
Emmanuelle Perret : ApJS, ApJ
Patricia Vannier : A&A, MNRAS, ...



=g=

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Via electronic tables
(selections, extractions, scripts,
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Merci de votre attention

