



ProAm

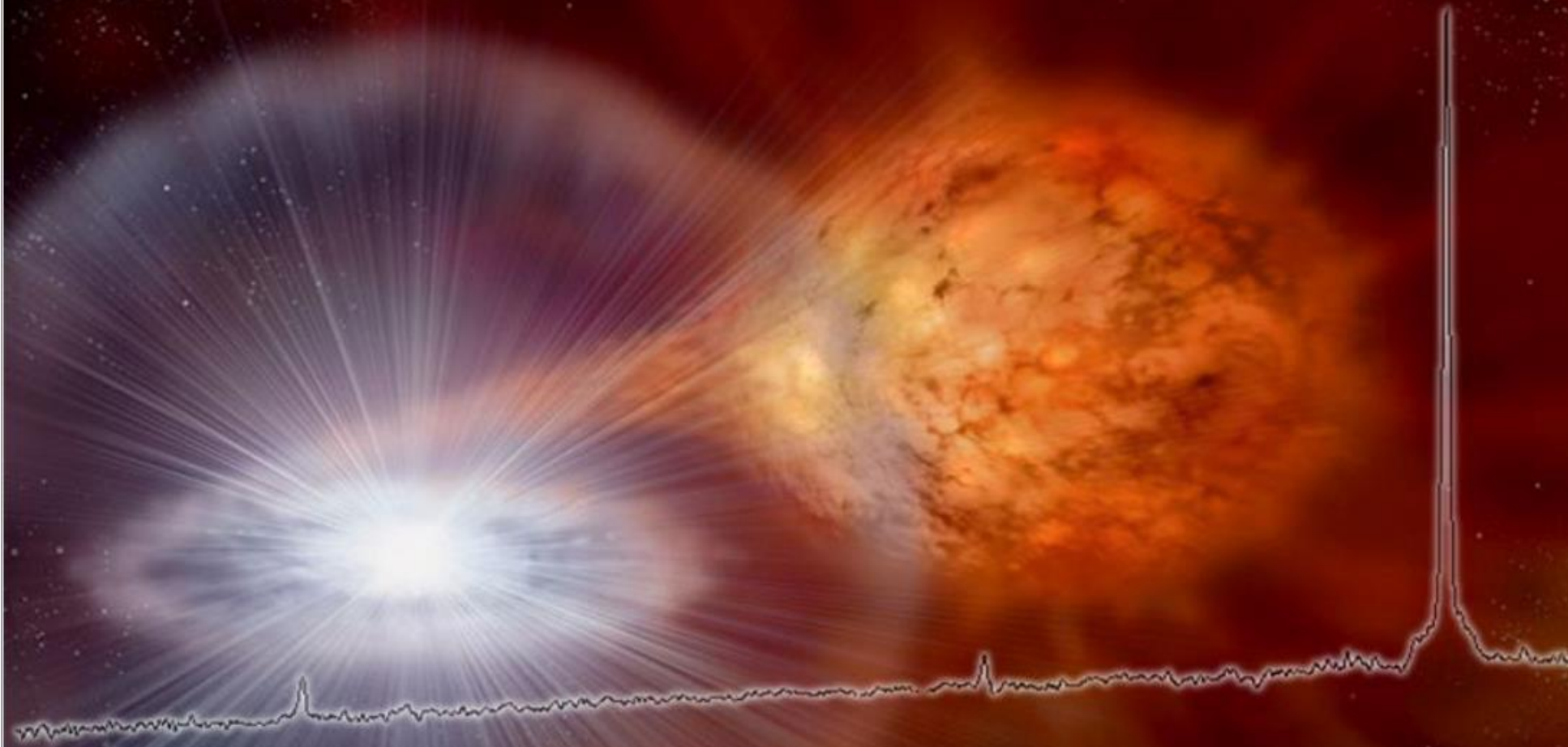
Une collaboration fructueuse
Pour les amateurs

Présentation sans prétention

De mes travaux de spectroscopiste
Amateur

La plate-forme ProAm : A R A S
Dédiée à la spectroscopie

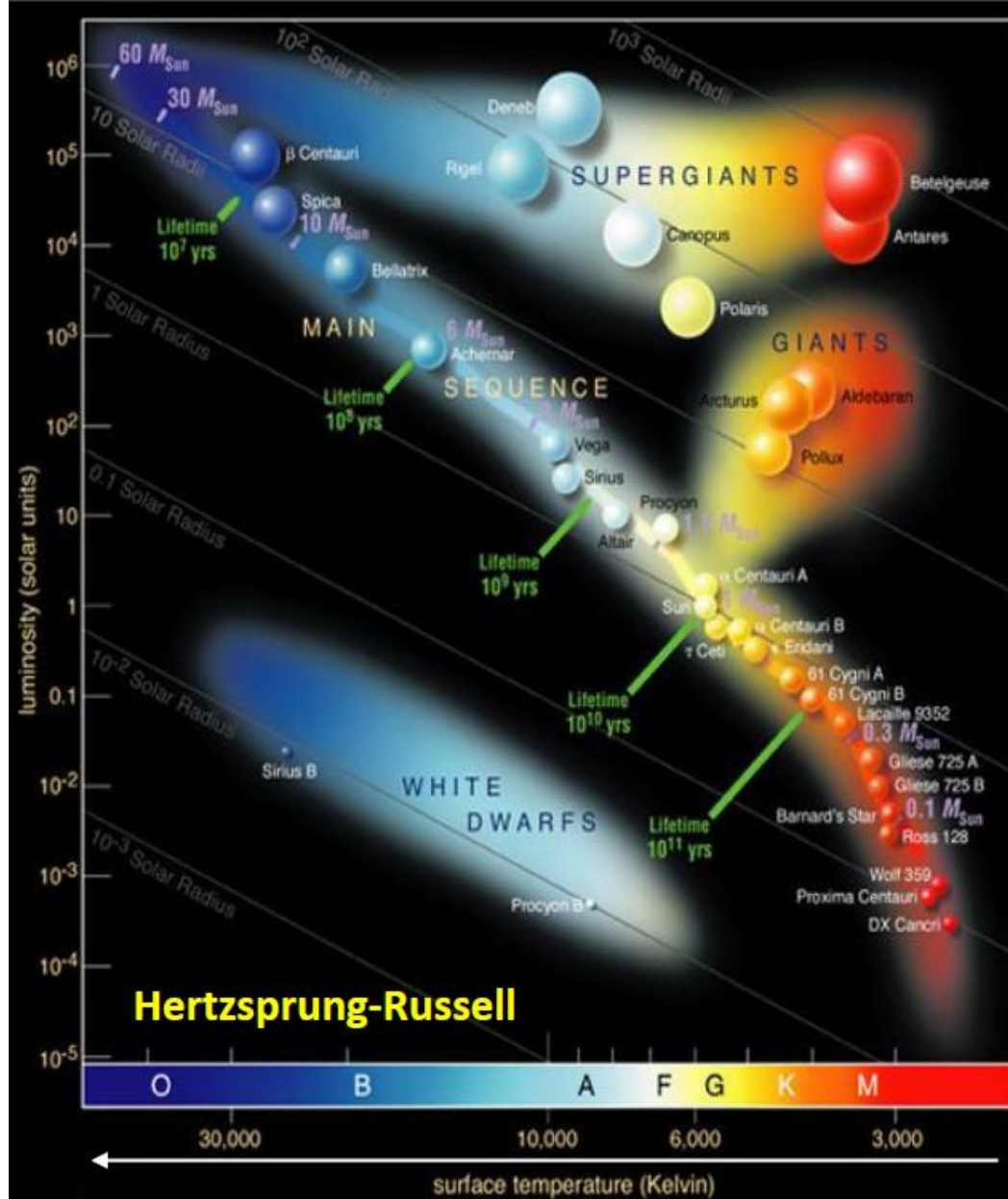
Etoiles Symbiotiques



Mons,
23-04-2017

François Teyssier
www.astronomie-amateur.fr

Classification spectrale



Catalogue HD (Henri Draper) XIX-XX^e
 Williamina Fleming
 Annie Cannon

Séquence principale

O	30000 K	16 M _☉	6.6 R _☉	30000 L _☉
B	10000 K	2.1 M _☉	1.8 R _☉	25 L _☉
A	7500 K	1.4 M _☉	1.4 R _☉	5 L _☉
F	6000 K	1.04 M _☉	1.15 R _☉	1.5 L _☉
G	5200 K	0.8 M _☉	0.96 R _☉	0.6 L _☉
K	3700 K	0.45 M _☉	0.7 R _☉	0.08 L _☉
M				



ÉTOILES SYMBIOTIQUES CIBLES

ARAS Symbiotics Program

Details on stars: [New Online Database of Symbiotic Variables](#)

Number of stars: 103

Number of spectra: 8014

Last update: 2023-03-31, 17:55

Observers

Observatories

Stars of special interest

Current campaigns: AG Dra, CH Cyg, R Aqr

Current surveys: CI Cyg, AG Peg, BF Cyg, AX Per

Outbursts: CN Cha

send spectra to [francoismathieu.teyssier \[at\] gmail.com](mailto:francoismathieu.teyssier@gmail.com) & [arasdatabase \[at\] gmail.com](#)

Publications using ARAS spectra

Priority (HR/LR):

- 0** Request of pros teams, outburst, special behavior **1** Long-term monitoring, high priority
2 Interesting target **3** Low cadence **4** Very low interest

LISTE de CIBLES

Priority (HR/LR):

0 Request of pros teams, outburst, special behavior 1 Long-term monitoring, high priority
 2 Interesting target 3 Low cadence 4 Very low interest

Search:

Name	RA (2000)	DEC (2000)	No. of spectra	First spectrum	Last spectrum	Days since last	Frequency	HR	LR
EG And	00 44 37.19	+40 40 45.70	199	2010-08-12	2022-12-28	99	30	1	3
AX Per	01 36 22.70	+54 15 02.41	448	2011-10-04	2023-02-26	39	8	0	0
V471 Per	01 58 49.66	+52 53 48.46	59	2013-08-06	2022-12-15	112	30	2	1
omi Cet	02 19 20.79	-02 58 39.50	57	2015-11-28	2023-01-27	69	15	1	1
BD Cam	03 42 09.33	+63 13 00.46	74	2011-11-08	2023-02-18	47	90	3	3
SthA 32	04 37 45.63	-01 19 11.90	15	2018-03-02	2022-01-20	441	8	3	3
UV Aur	05 21 48.91	+32 30 40.18	115	2011-02-24	2023-02-18	47	30	2	3
V1261 Ori	05 22 18.65	-08 39 58.05	44	2011-10-22	2023-03-26	11	30	3	3
ALS 1	05 31 15.06	+19 03 49.88	3	2020-07-20	2021-06-09	666	30	-	1
SthA 55	05 46 42.08	+06 43 47.08	20	2016-01-17	2023-02-09	56	30	3	3
SS Lep	06 04 59.13	-16 29 03.97	54	2018-02-17	2023-03-28	9	60	2	2
SU Lyn	06 42 55.14	+55 28 27.23	252	2016-05-02	2023-03-04	33	15	1	2
V417 CMa	06 59 11.30	-29 02 05.15	3	2021-09-16	2022-02-07	423	30	2	2
GH Gem	07 04 12.77	+12 03 34.24	15	2016-03-10	2023-02-26	39	30	3	3
ZZ CMi	07 24 14.00	+08 53 51.80	82	2011-09-29	2023-03-05	32	30	2	2
BX Mon	07 25 22.76	-03 35 50.64	121	2011-04-04	2023-03-06	31	30	2	2
V694 Mon	07 25 51.28	-07 44 08.08	526	2011-03-03	2023-03-26	11	1	0	0
NO Gem	07 31 54.52	+24 30 12.54	96	2013-04-01	2023-02-18	47	30	2	3

ARAS Symbiotics Program

AG Pegasi

RA (2000): 21 51 01.973

DEC (2000): +12 37 32.124

V (mag): 6.0 - 9.4

[New Online Database of Symbiotic Variables](#)

[SIMBAD](#)

Number of spectra: 385

First spectrum: 2009-12-06

Last spectrum: 2022-12-01

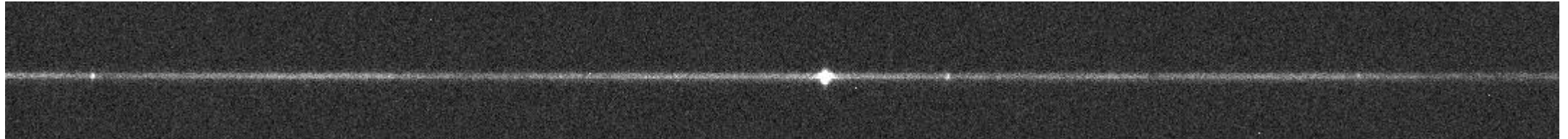
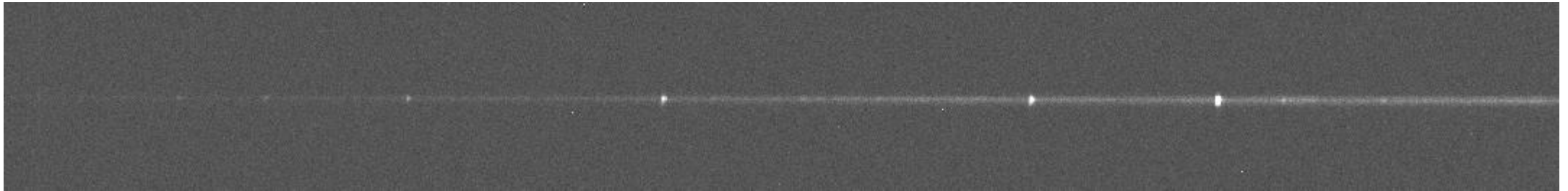
send spectra to [francoismathieu.teyssier \[at\] gmail.com](mailto:francoismathieu.teyssier@gmail.com) & [arasdatabase \[at\] gmail.com](mailto:arasdatabase[at]gmail.com)

Ongoing survey

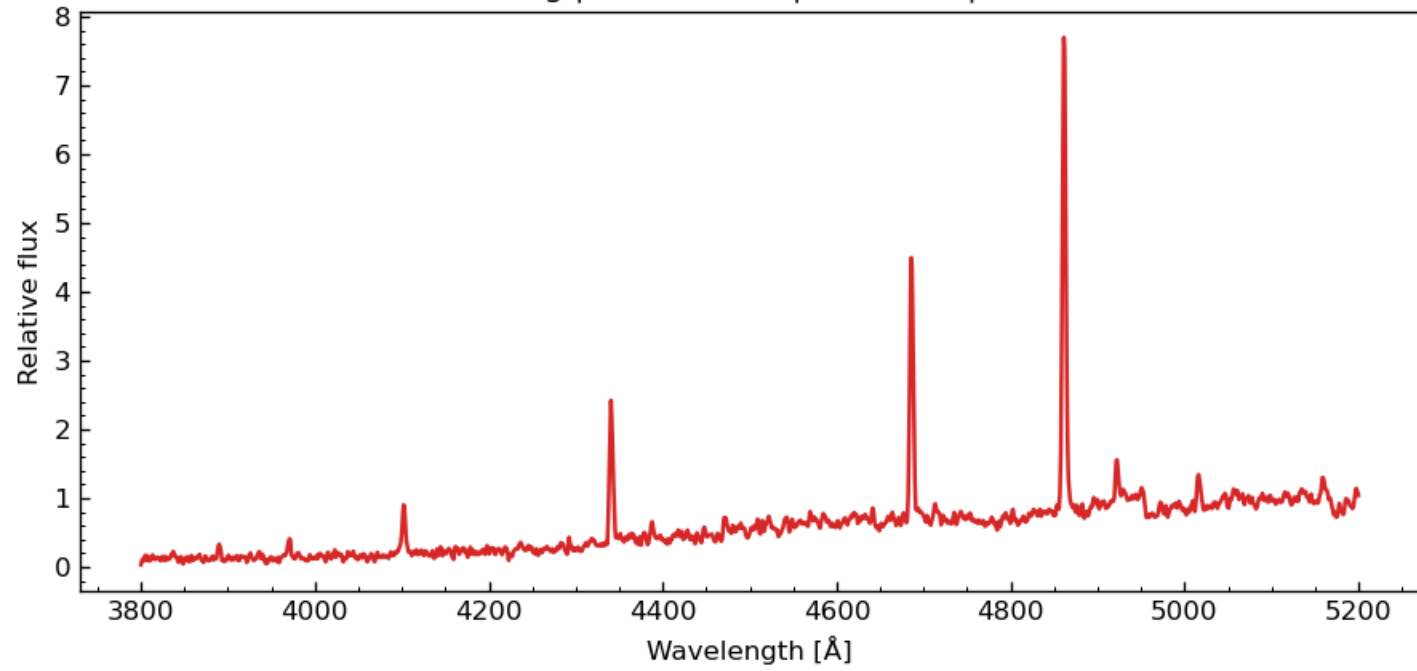
Mon Setup



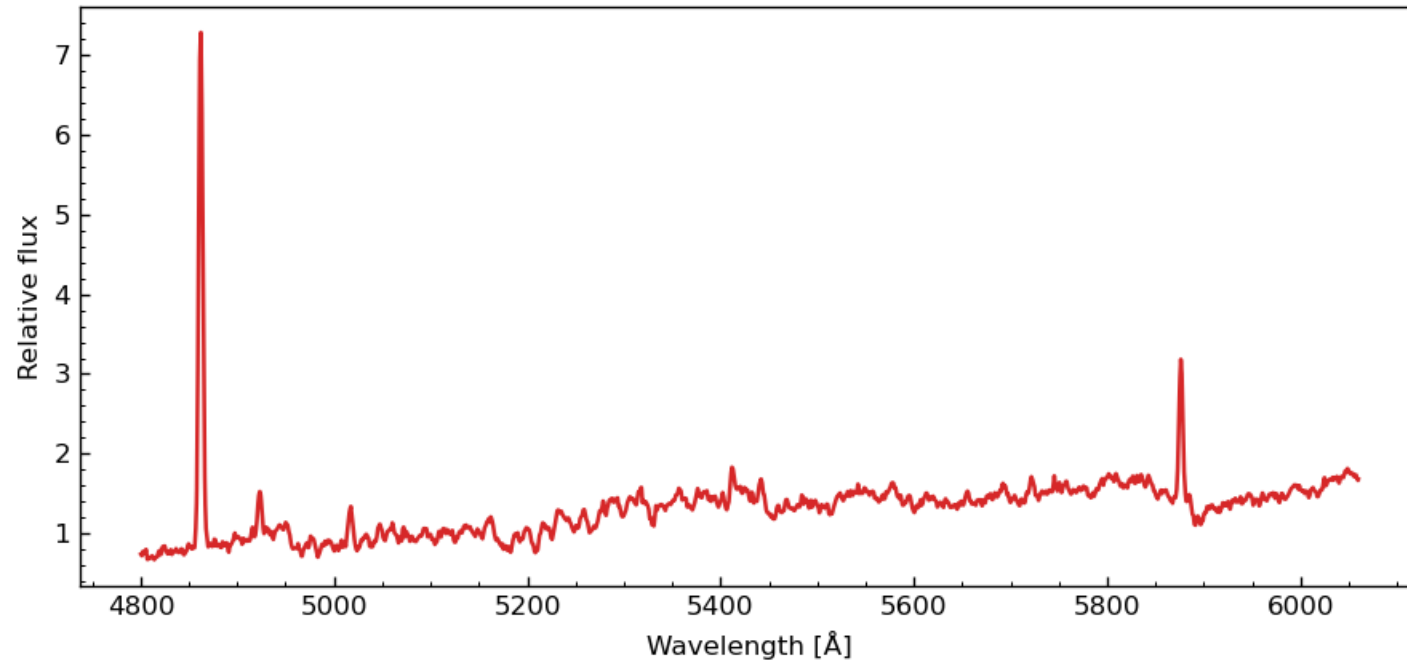
IMAGES 2D
DU SPECTRE DE L'ÉTOILE AG PEG
Dans le bleu puis dans le rouge



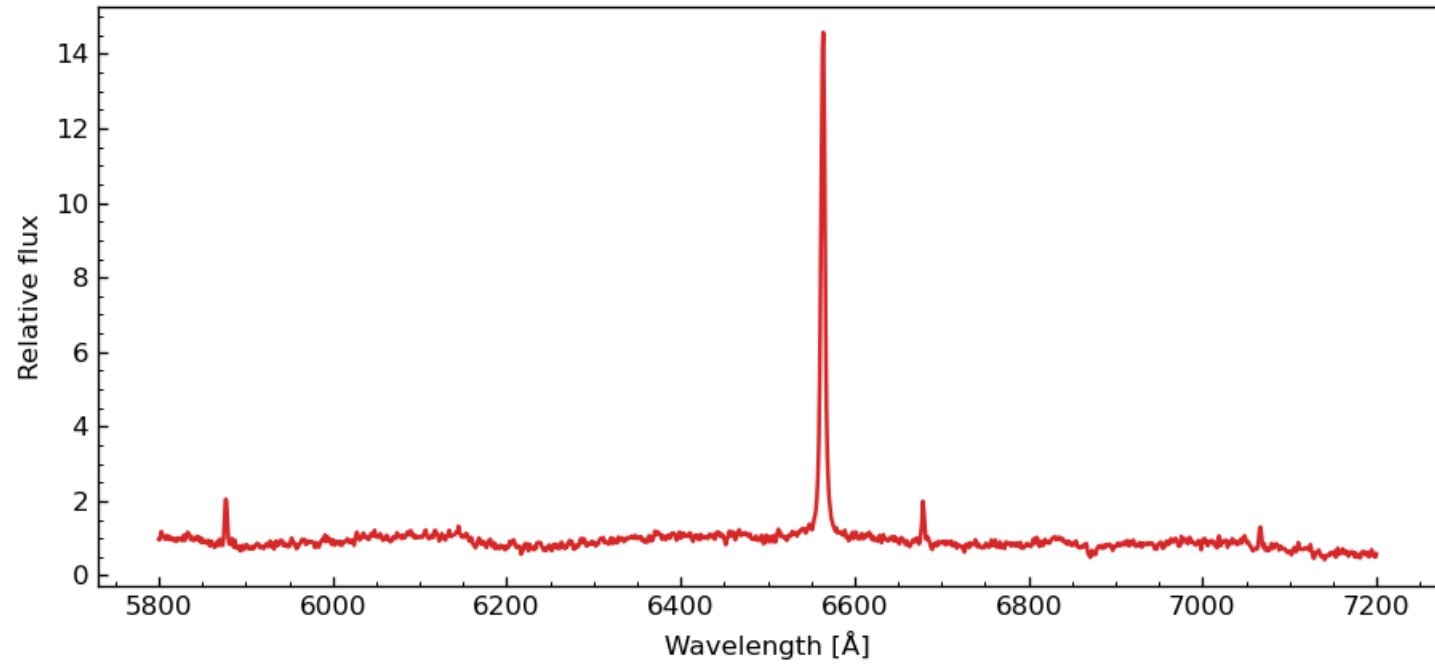
AG Peg | 2022-12-01 | 18:53:34 | CLC



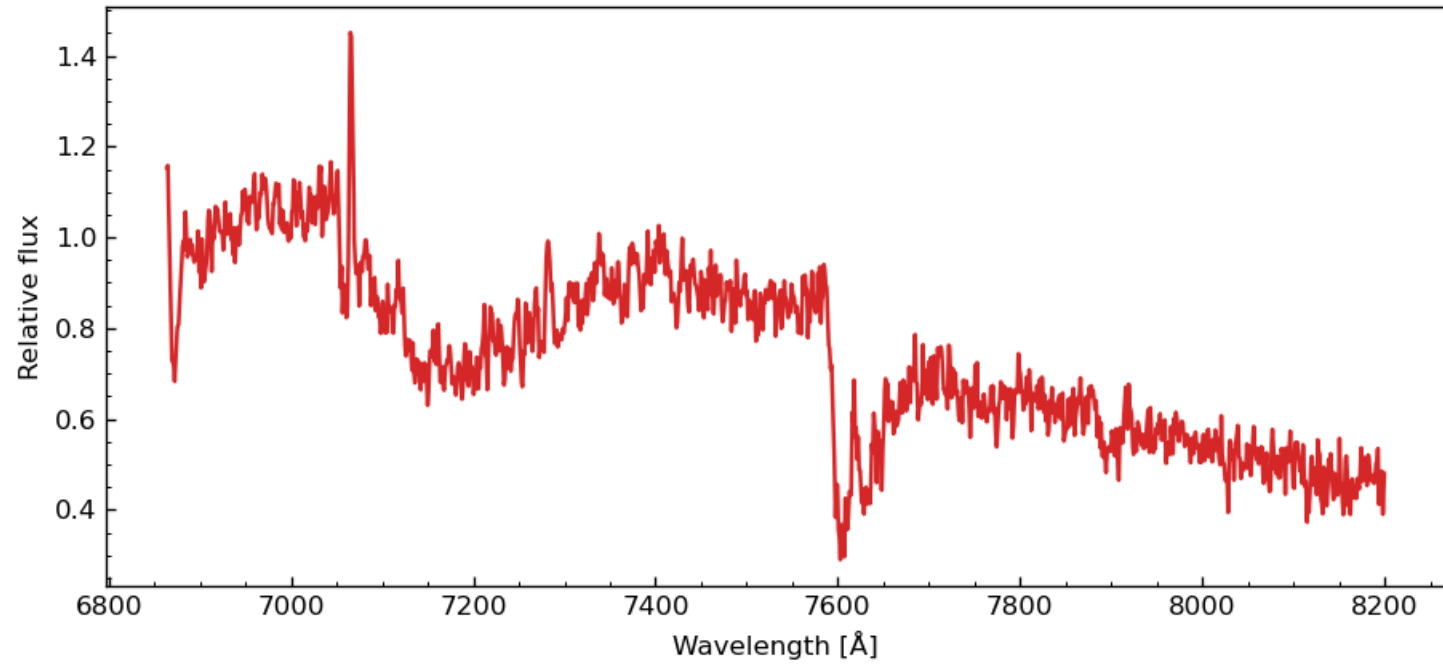
AG Peg | 2022-12-01 | 19:51:10 | CLC



AG Peg | 2022-12-01 | 20:45:44 | CLC



AG Peg | 2022-12-01 | 20:19:40 | CLC



PUBLICATION

AG Pegasi

RA (2000): 21 51 01.973

DEC (2000): +12 37 32.124

V (mag): 6.0 - 9.4

[New Online Database of Symbiotic Variables](#)

[SIMBAD](#)

Number of spectra: 385

First spectrum: 2009-12-06

















Last spectrum: 2022-12-01

send spectra to francoismathieu.teyssier [at] gmail.com & arasdatabase [at] gmail.com

Ongoing survey

Download all spectra as *.zip file (33.8 MB)

Search:

Date	Time (UT)	JD 24..	Observer	Site	Resolution	λ_{\min}	λ_{\max}	File	Preview	Comments
2022-12-01	20:45	59915.365	CLC	ASA-FR	600	5800	7200			
2022-12-01	20:19	59915.347	CLC	ASA-FR	600	6864	8200			
2022-12-01	19:51	59915.327	CLC	ASA-FR	600	4800	6060			
2022-12-01	18:53	59915.287	CLC	ASA-FR	600	3800	5200			
2022-11-28	20:44	59912.364	DBO	WCO-UK	1048	3901	7380			
2022-11-28	01:27	59911.561	FAS	DCO-US	1067	3729	7301			
2022-11-07	19:20	59891.306	JGF	SMM-SP	9000	3706	9986			
2022-11-07	02:04	59890.586	FAS	DCO-US	1073	3730	7300			

ARAS Symbiotics Program

EG Andromedae

RA (2000): 00 44 37.188

DEC (2000): +40 40 45.703

V (mag): 7.0 - 7.8





















[New Online Database of Symbiotic Variables](#)[SIMBAD](#)

Number of spectra: 199

First spectrum: 2010-08-12

Last spectrum: 2022-12-28

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Date	Time (UT)	JD 24..	Observer	Site	Resolution	λ_{\min}	λ_{\max}	File	Preview	Comments
2022-12-28	21:41	59942.404	JGF	PIE-SP	9000	3802	9928	 ↓		
2022-12-17	02:49	59930.618	FAS	DCO-US	1057	3718	7308	 ↓		
2022-12-05	21:30	59919.396	CLC	ASA-FR	600	5900	7200	 ↓		
2022-12-05	21:06	59919.380	CLC	ASA-FR	600	5000	6147	 ↓		
2022-12-05	20:44	59919.364	CLC	ASA-FR	600	4000	5000	 ↓		
2022-11-20	01:52	59903.578	KSH	CAR-US	1000	3800	7200	 ↓		
2022-11-13	20:41	59897.362	JGF	SMM-SP	9000	3745	9827	 ↓		
2022-11-05	20:53	59889.370	JGF	SMM-SP	9000	3706	9849	 ↓		
2022-11-05	02:32	59888.606	FAS	DCO-US	1061	3729	7300	 ↓		
2022-08-03	23:12	59795.467	YAM	KOL-SK	974	3800	7400	 ↓		

LA CONSIGNE

ARAS Symbiotics Program

T Coronae Borealis

RA (2000): 15 59 30.162

DEC (2000): +25 55 12.608

V (mag): 2.0 - 10.8

[New Online Database of Symbiotic Variables](#)

[SIMBAD](#)

Number of spectra: 706

First spectrum: 2012-04-01

Last spectrum: 2023-02-18

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Pre-Outburst State (high accretion rate)

One spectrum/day until next outburst

[Download all spectra as *.zip file \(47.5 MB\)](#)

Search:

LE HAREM DE PICKERING

