

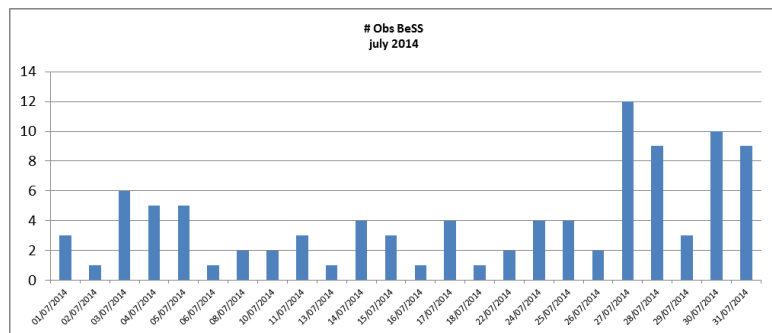
BeSS report – July 2014

Do not miss the new section on the Be projects by E.Pollmann [here](#)
 And the first Astronomer Telegram on HD224544 [here](#)

Observateur	Nb spec
Desnoux	24
Sawicki	20
Buil	17
Bohlsen	8
Fosanelli	6
Pollmann	5
Guarro Fló	5
GARREL	4
Berardi	4
GARDE	3
Montigiani	
Mannucci	1
Total général	97

- 97 H-alpha spectra acquired
- 53 objects observed
- 11 observers contributed

The most observed objects were Del Sco, gam cas and Bet Cep



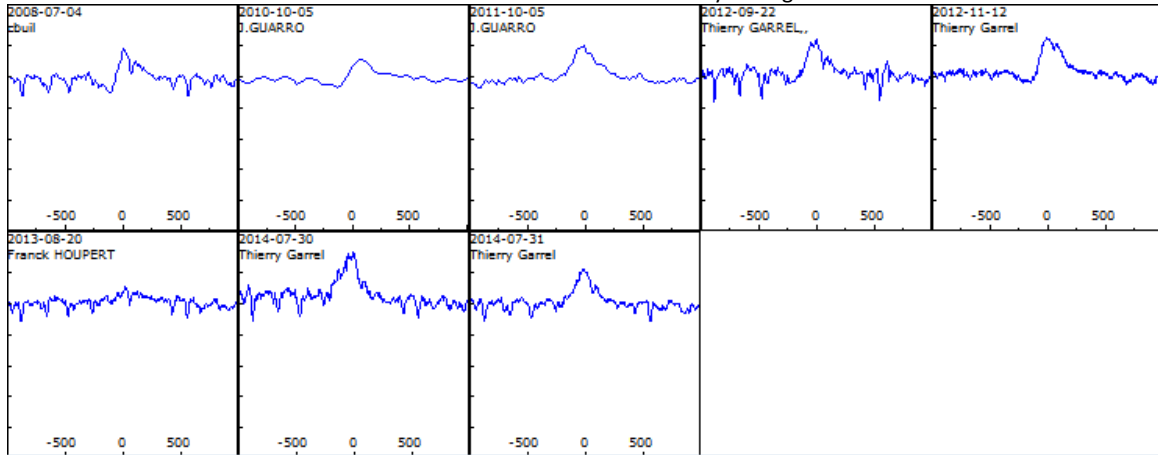
Objects observed

Classique						Classique ou Herbig	Herbig
del Sco	V2136 Cyg	HD 194057	HD 205551	HD 194244	12 Vul		
gam Cas	kap Dra	V378 And	PLEIONE	HD 121045	V2103 Cyg		
ALFIRK	QR Vul	HD 117172	PHECDA	14 Lac	V558 Lyr		
V425 Vel	V442 And	ups Cyg	psi Per	53 Boo	EW Lac		
HD 224544	48 Lib	QT Ser	HD 194779	11 Cyg	V907 Cen		
HD 22780	59 Cyg	tet CrB	HD 171219	V4024 Sgr	pi Aqr		
chi Oph	zet Oph	omi And	V1339 Aql	nu Cyg	CD-56 6163		
omi Her	lam Cyg	bet Cyg B	eps Cas	4 Her	HD 173817		
phi And	V532 Lyr	25 Peg	SHELIAC	18 And			

Emission increase since last observations

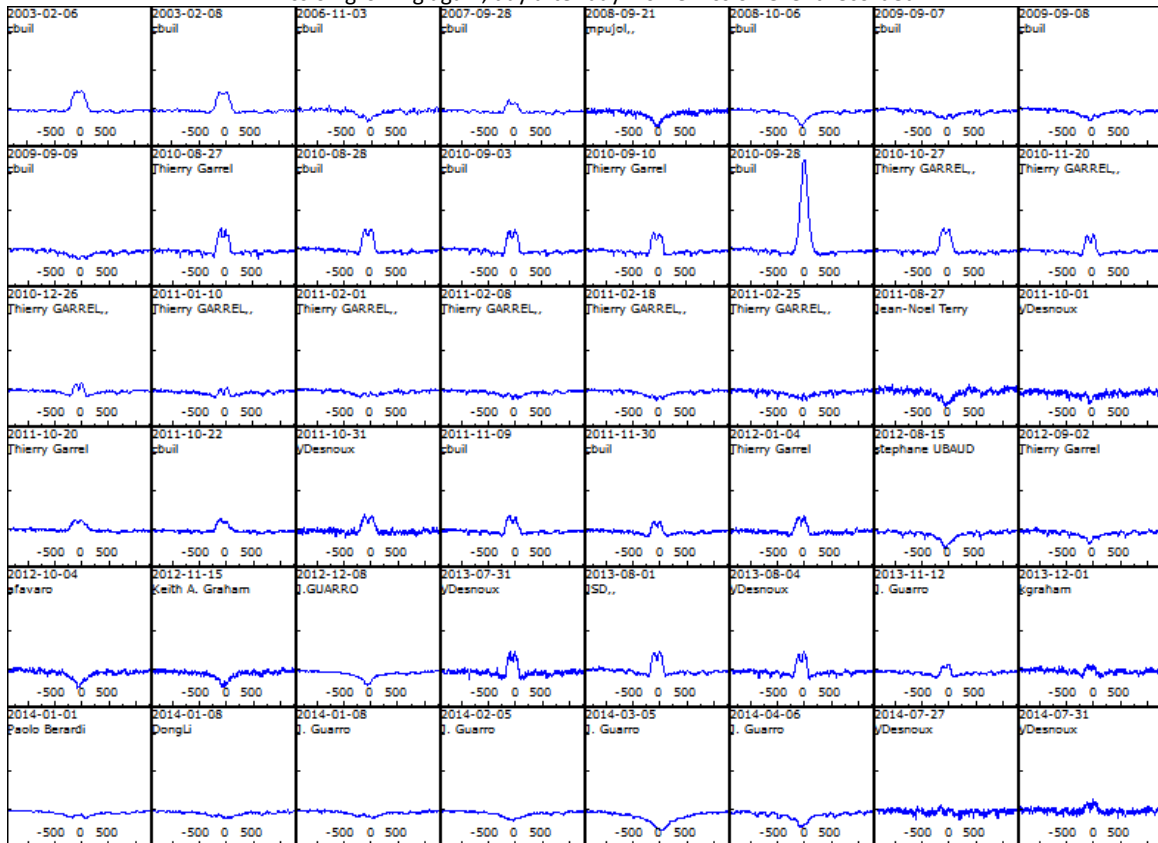
HD 194057 - B1Ile

Emission above the continuum as 2 years ago



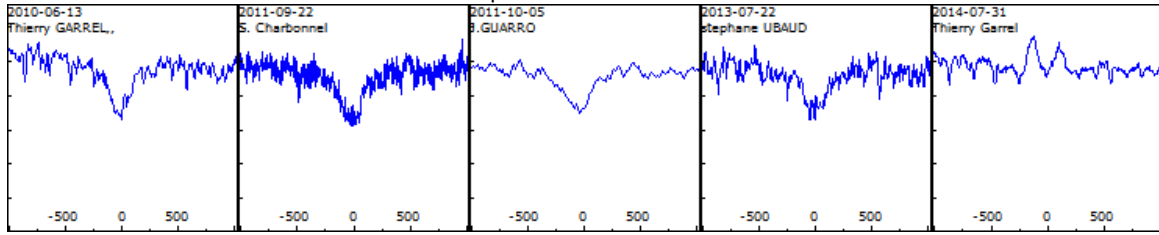
V442 And - B2IVe

Emission growing again, day after day – 6th emission event recorded



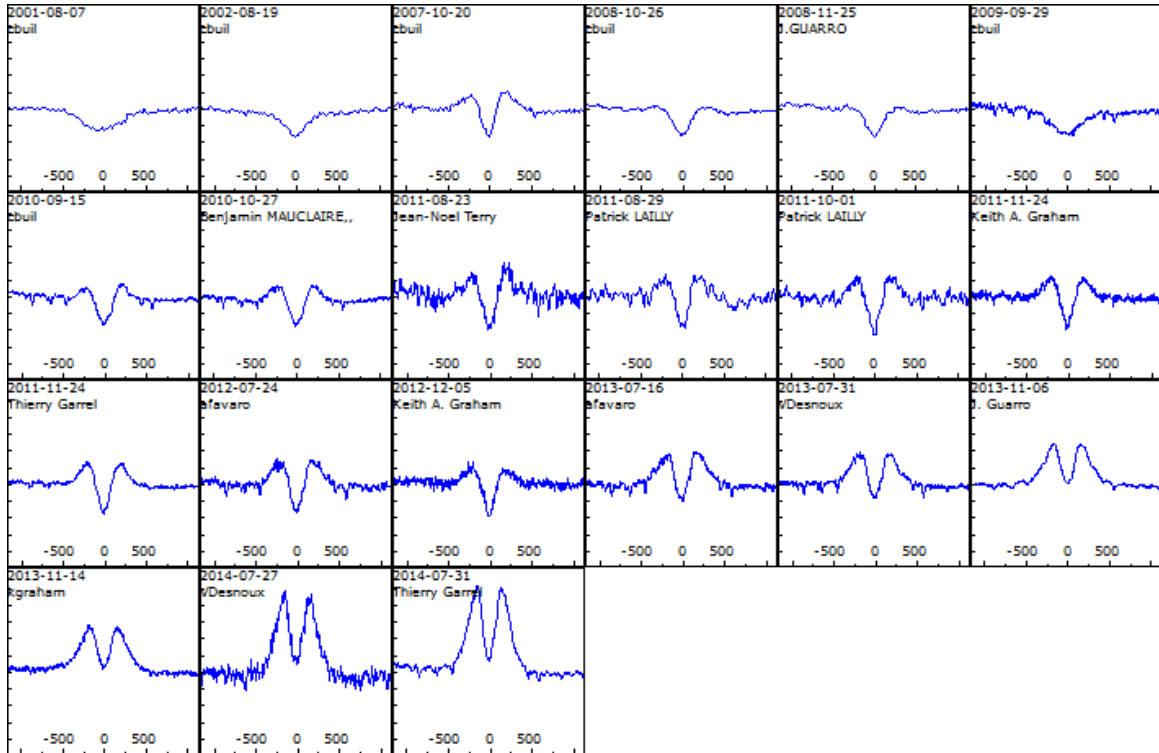
HD 194779 - B3Ile

Emission with doubled peak – no other emission recorded in BeSS



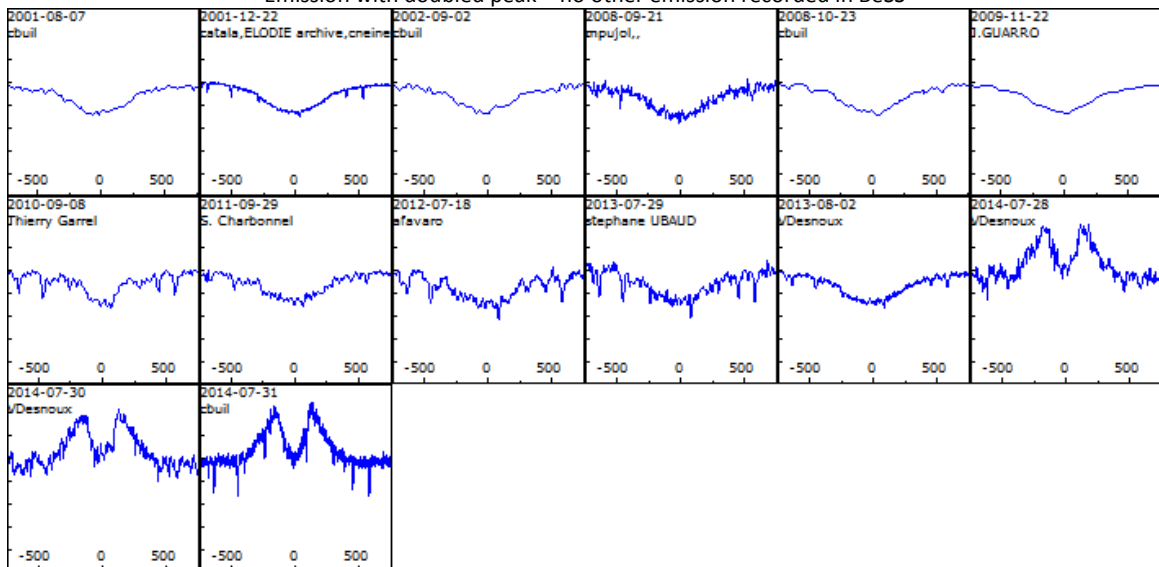
V378 And B3Vpe

Emission event between nov and now



HD 224544 - B6Ive

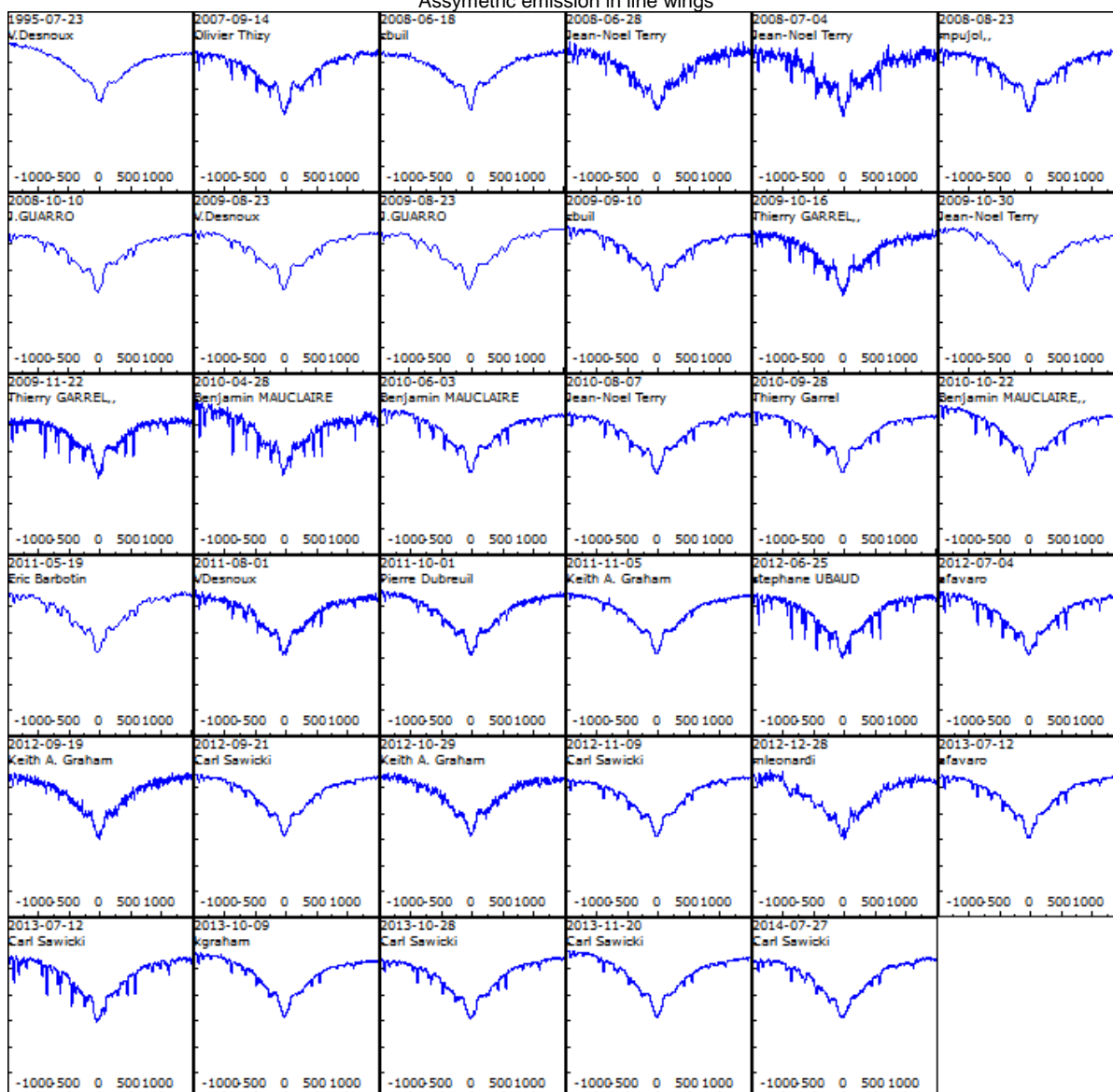
Emission with doubled peak – no other emission recorded in BeSS



Moderate evolutions of H-alpha line

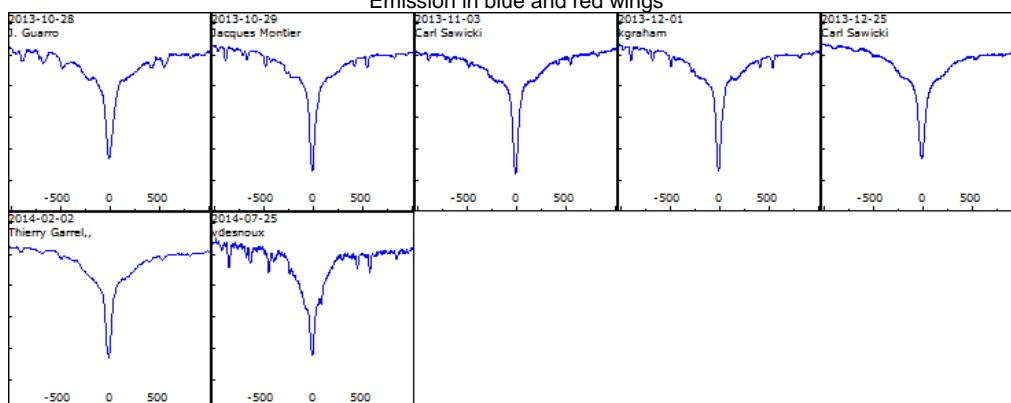
Nu Cyg

Assymmetric emission in line wings



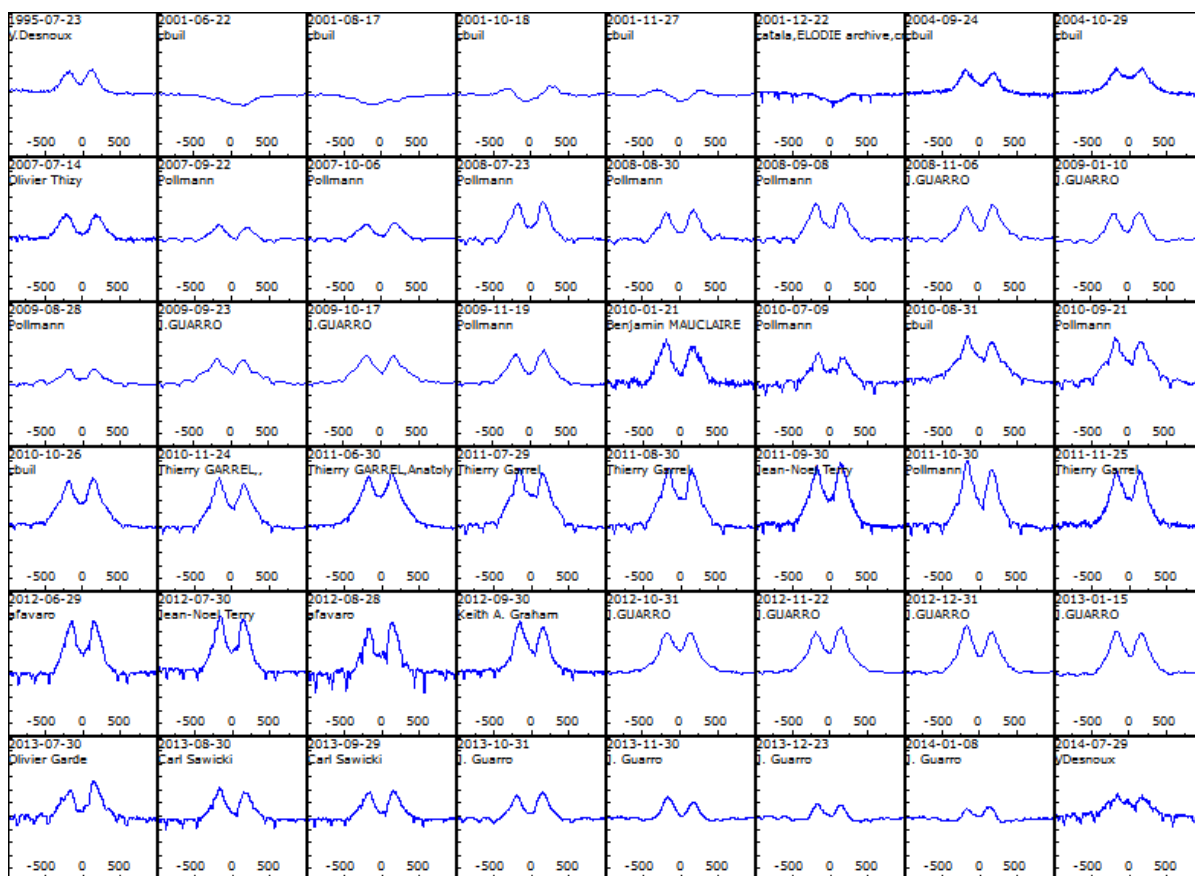
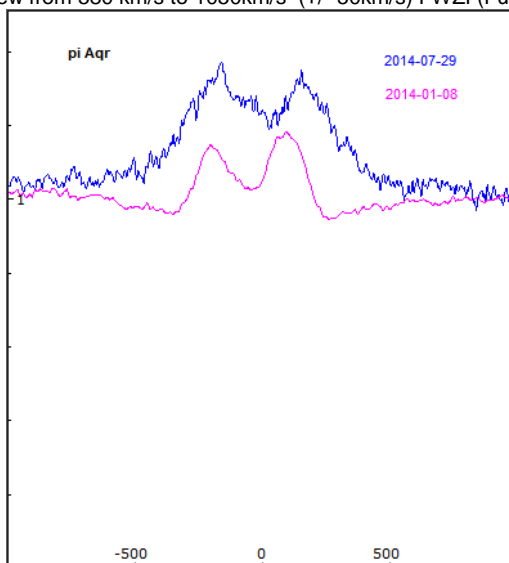
Omi And

Emission in blue and red wings



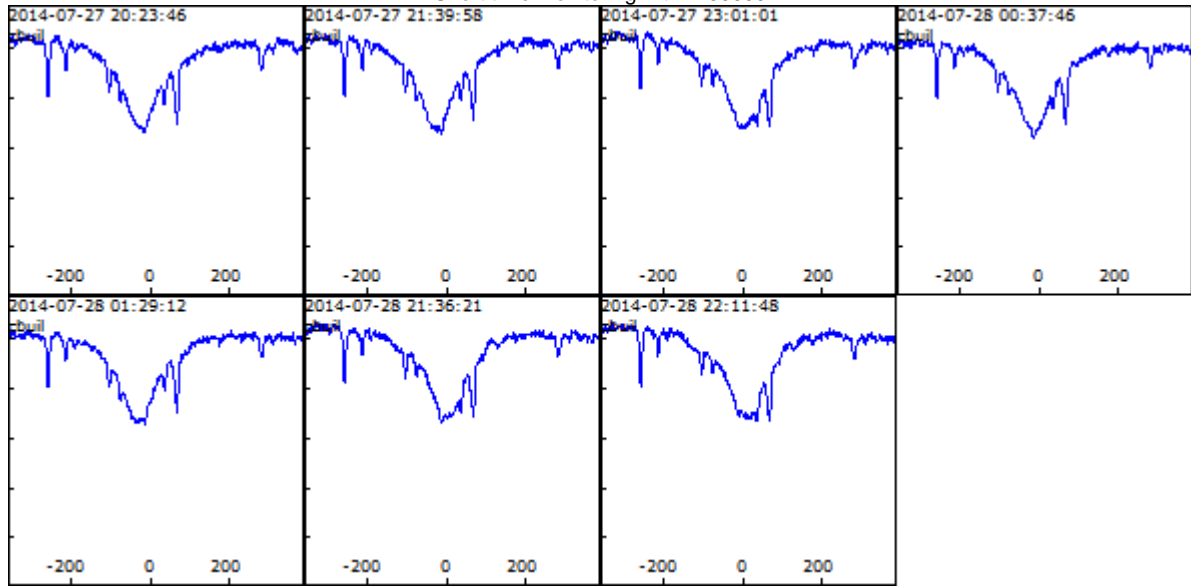
Pi Aqr

Larger emission line grew from 580 km/s to 1050km/s (+/- 50km/s) FWZI (Full Width at Zero Intensity)



Bet Cep

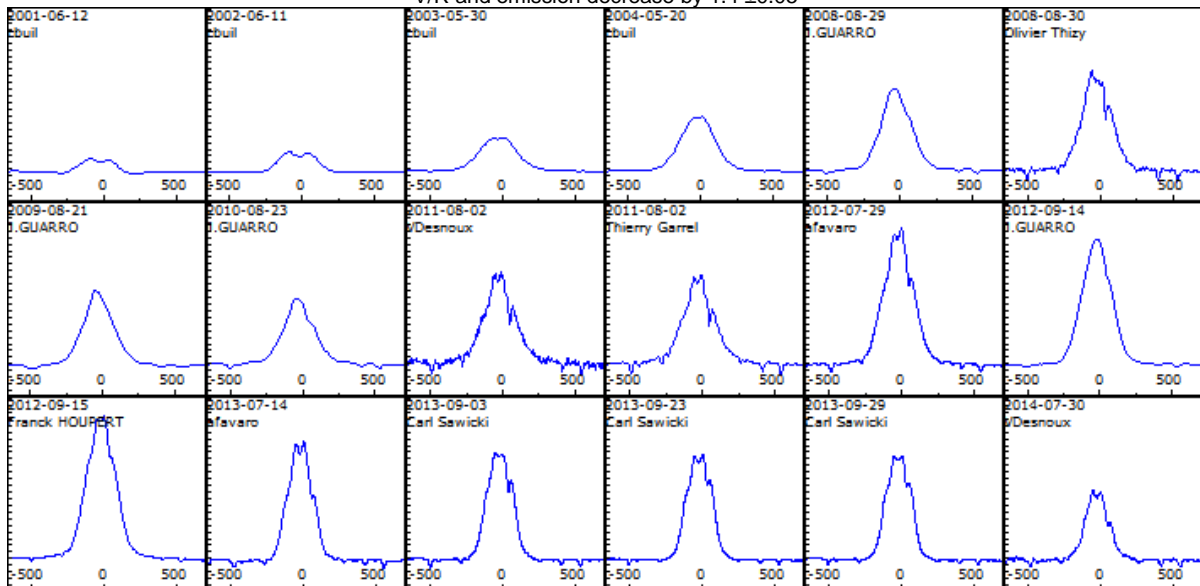
Short time monitoring with R 50000



Emission decrease of H-alpha line

V4024 Sgr B2Ve

V/R and emission decrease by 1.4 ± 0.05



Be monitoring projects

By Ernst Pollmann

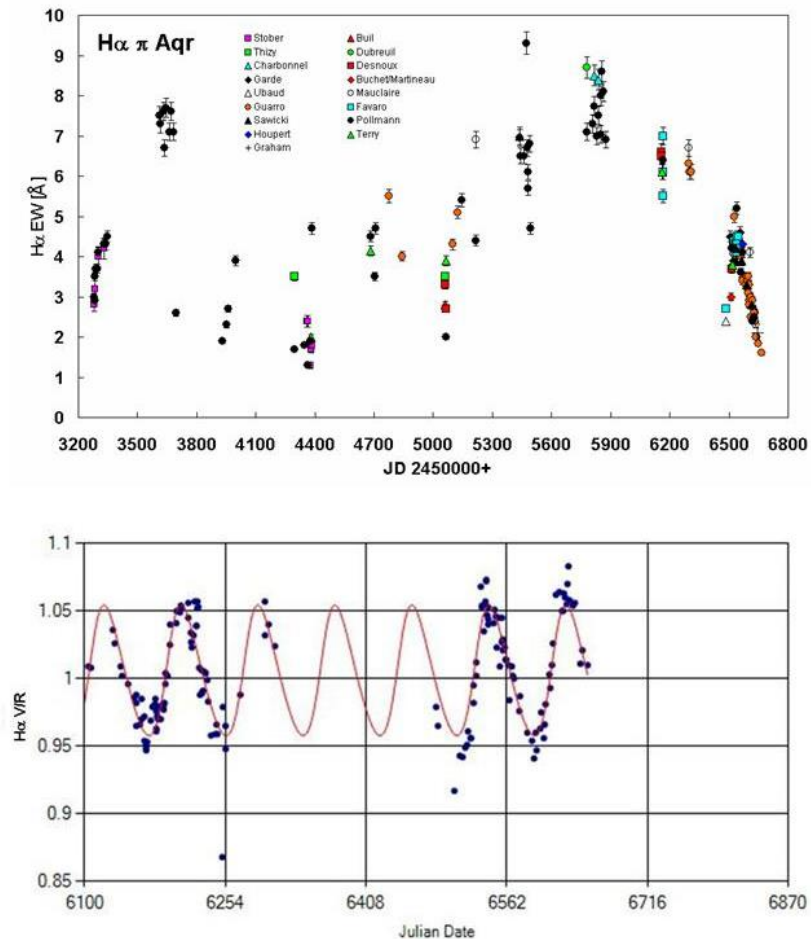
Pi Aqr

One of the coming season star until the end of December (in Europe) will be again pi Aqr. Remember the great collaboration with our professional colleagues S. Zarikov and A. Miroshnichenko and our great publication.

The sense of continuation the observation is:

- monitoring of the stability of the V/R period of 84.2 days
- monitoring of the H α EW behavior.

It would be great, if again such a large amount of observers would take spectra of this interesting star as during the last campaign (see the attached Fig.)



ATEL on outburst detection on HD 224544

<http://www.astronomerstelegram.org/>

[[Previous](#) | [Next](#)]

Transition of the H-alpha line from absorption to a double-peaked emission in the Be star HD 224544

ATel #6362; *V. Desnoux (for the ARAS group)*

on 2 Aug 2014; 16:46 UT

Credential Certification: S. N. Shore (shore@df.unipi.it)

Subjects: Optical, Star, Variables



We report the observation of an emission event in H-alpha for the Be star HD 224544. Spectra were obtained at the Observatoire de Haute Provence, France, with a 0.2m telescope and a Lhires III spectrograph. The spectral coverage is 6485 Å to 6635 Å with a resolution $R \sim 11000$ and $SNR \sim 25$ in the continuum at H-alpha; the continuum was scaled in the interval 6600-6610 Å. The first observation started at 2014 Jul. 28.016 UT and ended at 2014 Jul. 28.065 UT, followed by a spectrum taken two nights later at 2014 Jul. 30.984 UT and ended at 2014 Jul. 31.016 UT. Compared to the spectrum in the BeSS database taken on 2013 Aug. 2.024 UT, the H-alpha transitioned from absorption to a double-peaked emission line at an intensity level 1.35 ± 0.05 times above the continuum, indicating that an outburst occurred. The emission has a FWZI ~ 900 km/s with $V/R \sim 1.0 \pm 0.1$ with a velocity separation of about 300 km/s. The absorption feature is blueshifted by about 50 km/s with a residual central intensity of about 5% above the continuum. The BeSS database contains 11 H-alpha spectra taken of this star obtained in 2001, 2002, and one per year from 2008 to 2013 (and one ELODIE echelle spectrum from 2001 Dec. 2), resolution ~ 45000 , all of which show only a pure absorption at H-alpha. All spectra are available in the BeSS database (Be Star Spectra, <http://basebe.obspm.fr>, LESIA à Observatoire de Paris-Meudon). Observations at other wavelengths are encouraged, as is submission of the data to the BeSS.

BeSS database v2.0