

BeSS report – Jan 2018

Data compiled by **Valérie Desnoux** – H-alpha monitoring
 Be projects section by **Ernst Pollmann** [here](#)

- 63 stars were observed
- 14 Observers contributed this month
- 136 Spectra

Observers...

Observateur	Nb spec
Thizy	22
GARDE	19
Guarro Fló	19
Daglen	18
bertrand	16
Sawicki	11
HOUPERT	7
Bohlson	6
KREIDER	6
Buil	5
Heathcote	2
de Bruin	2
Pollmann	2
Waldschlaeger	1
Total général	136

Events of the month...

EE: Emission Event, ME: Moderate Events, DE: Decreasing Event

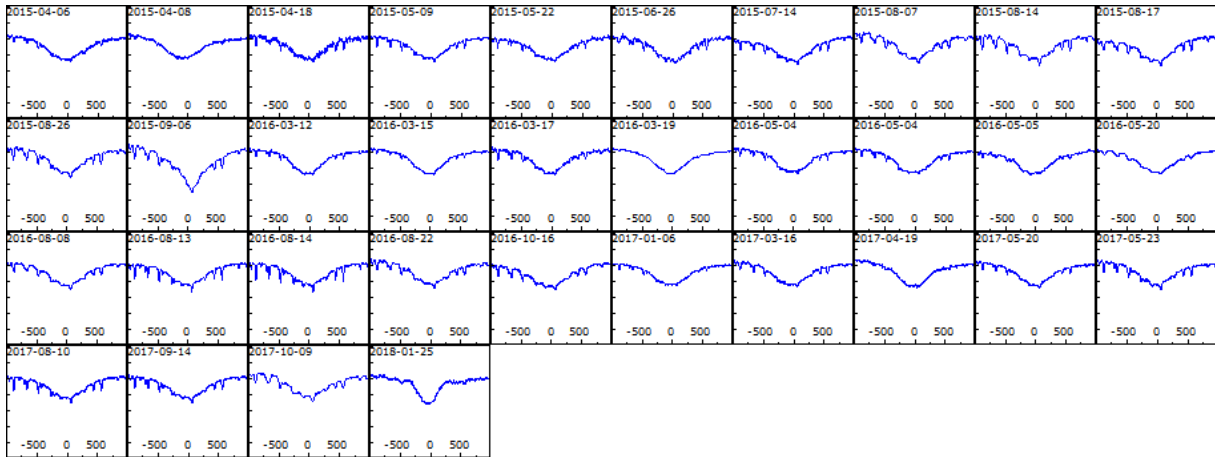
EE	ME	DE	EE	ME	DE
tet CrB	kap Dra	OT Gem	B6Vnne	B6IIIpe	B2Ve
EW Lac	BT CMi	ome Ori	B3IVpe	B2Vne	B2IIIe
omi And	4 Her	14 Lac	B6IIIpe	B9pe	B3IVe
25 Ori	phi And	phi Per	B1Vpe	B7Ve	B2Vpe
lam Eri	eta Ori	V358 Per	B2IVne	B0.5Ve	B1IIIe
AX Mon	V473 Per	PZ Gem	B2IIIpshev	B0IIIpe	O9pe
V357 Lac	HD 7720		B1Vnnpev	B5Ile	
ACHERNAR	HD 42054		B6Vpe	B4IVe	
HD 224905	AN Col		B1Vne	B2Vnpe	
CR Cam	V593 Tau		B2Ve	B3Ve	
HD 237056	OY Hya		B0.5Vpe	B5Ve	
HD 35345			B1Vpe		

Objects observed

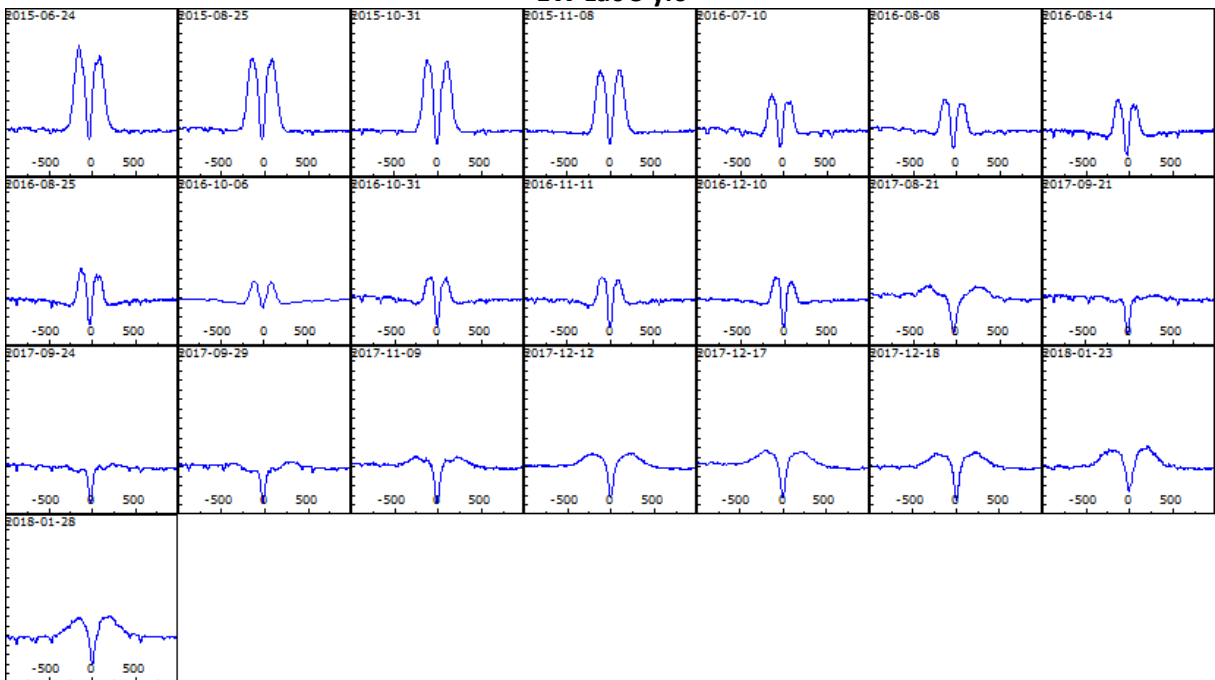
Classique							B[e]	Herbig
gam Cas	kap Dra	pi Aqr	ELECTRA	11 Cam	6 Cep	PZ Gem	V594 Cas	
zet Tau	BT CMi	ALFIRK	omi Cas	eta Ori	ACHERNAR	HD 42054		
PLEIONE	del Sco	14 Lac	25 Ori	V1369 Ori	HD 42477	V529 Cas		
V442 And	4 Her	psi Per	omi Aqr	2 Cet	HD 224905	HD 18877		
OT Gem	CQ UMa	omi And	lam Eri	AX Mon	HD 245310	HD 112028		
tet CrB	phi And	eps Cas	ALCYONE	2 Ori	V473 Per	CR Cam		
ome Ori	HD 22780	phi Per	MEROPE	V357 Lac	V358 Per	HD 237056		
PHECDA	EW Lac	10 Cas	HD 20134	V413 Aur	HD 7720	alf Col		
AN Col	HD 35345	V593 Tau	HD 38191	17 Sex	OY Hya			

Emission increase since last observations

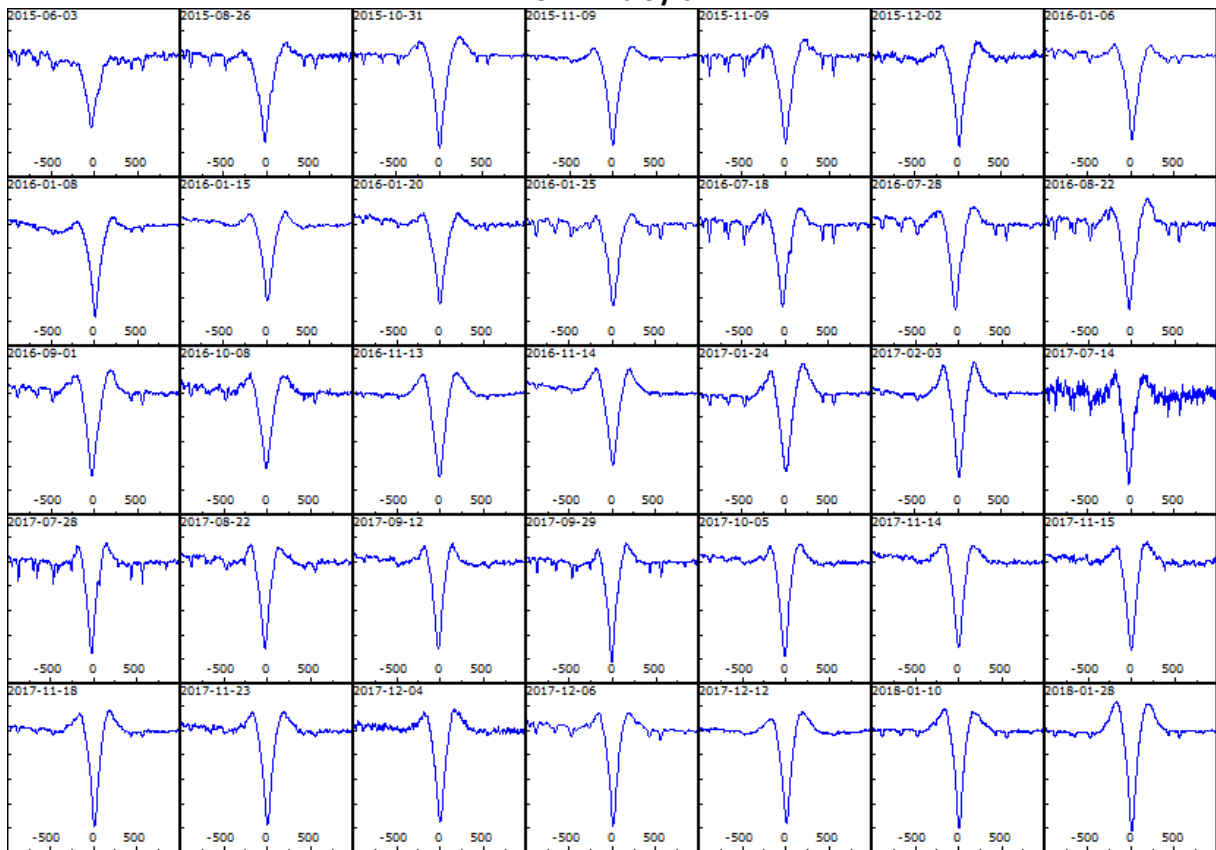
tet CrB 3yrs



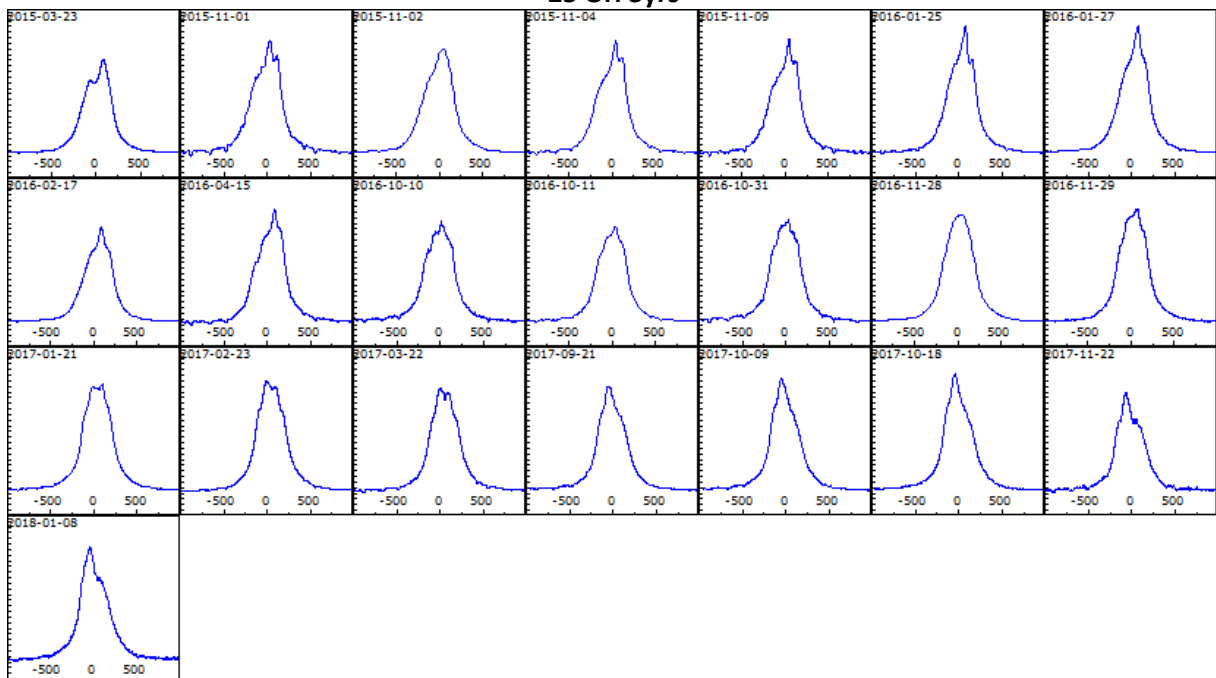
EW Lac 3 yrs



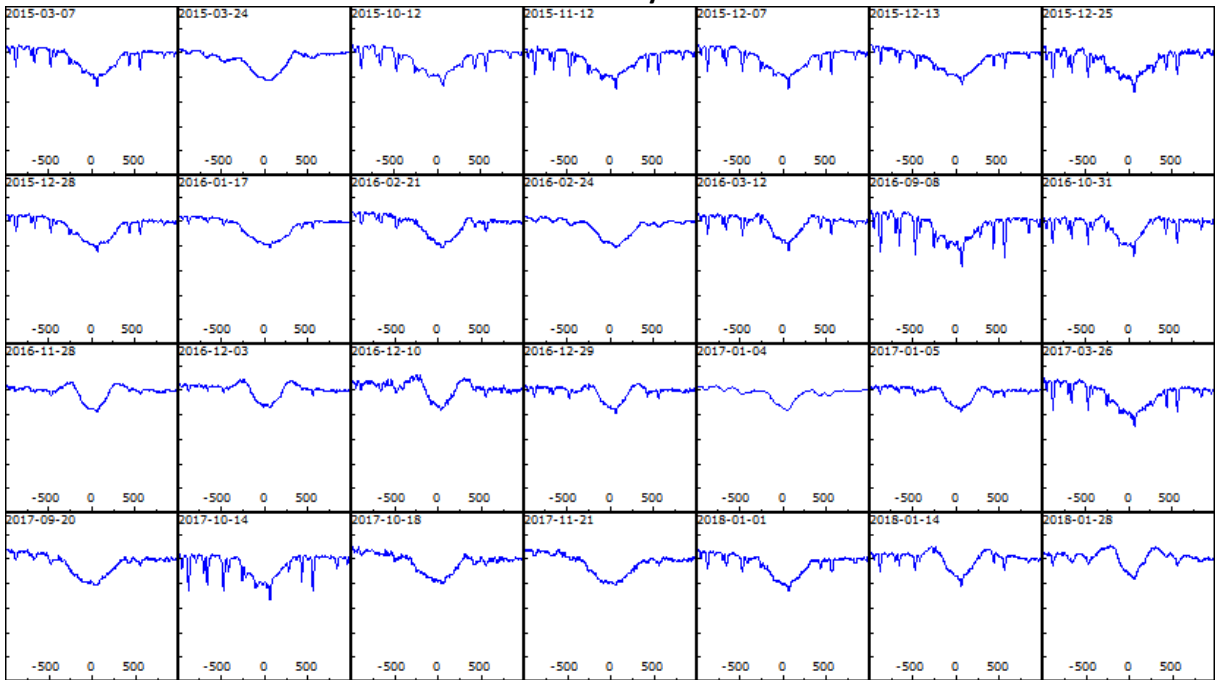
omi And 3yrs



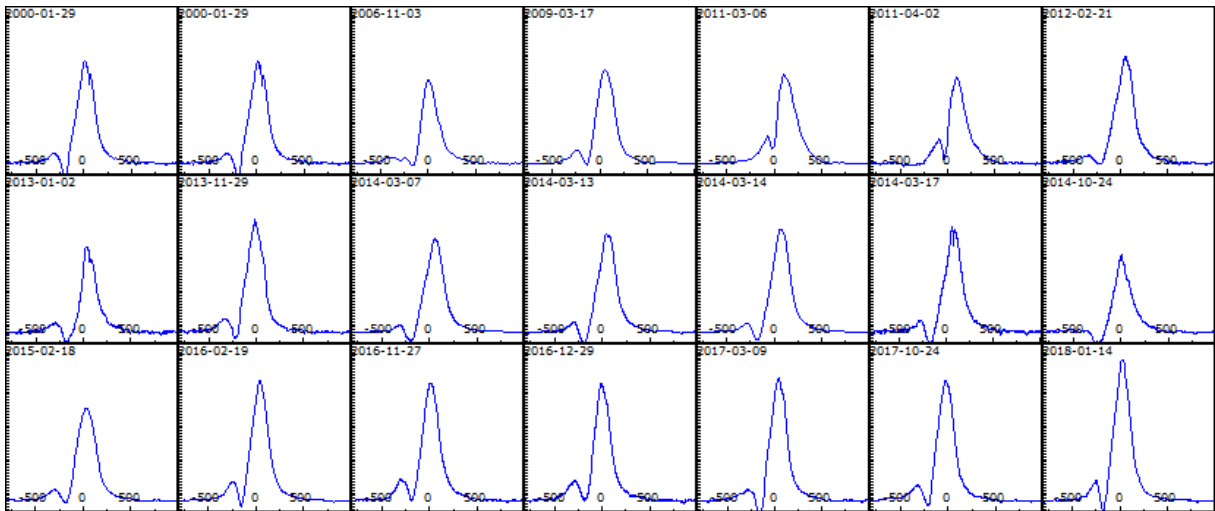
25 Ori 3yrs



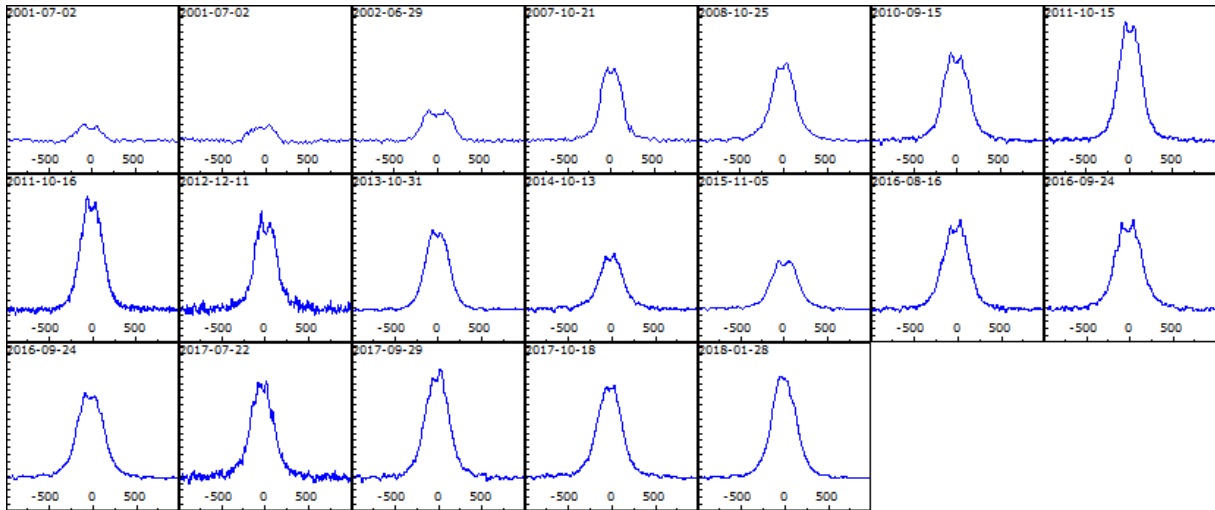
Iam Eri 3yrs



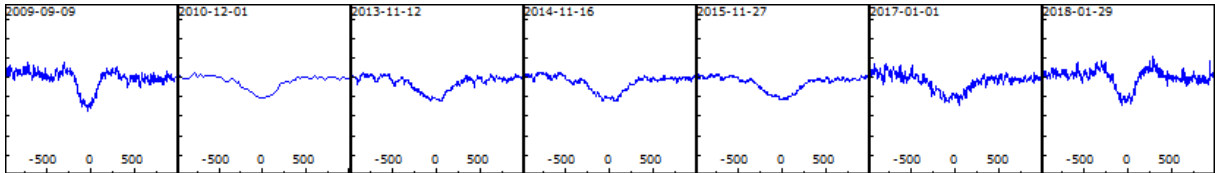
AX Mon



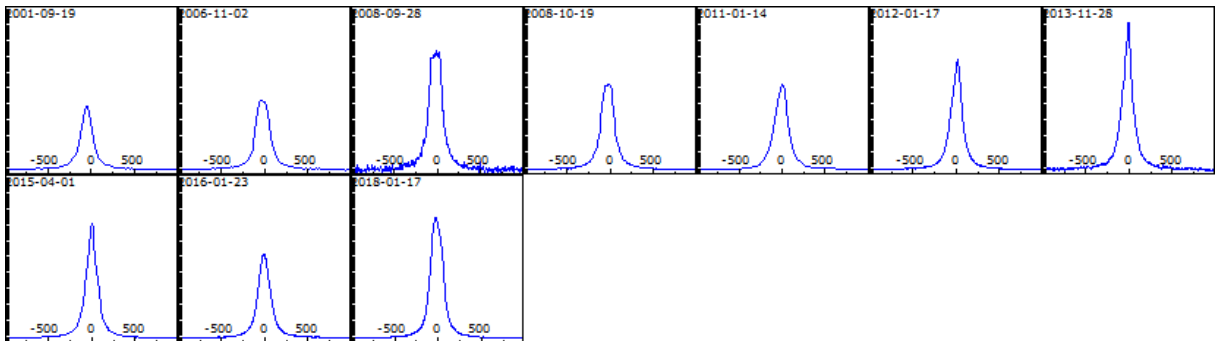
V357 Lac



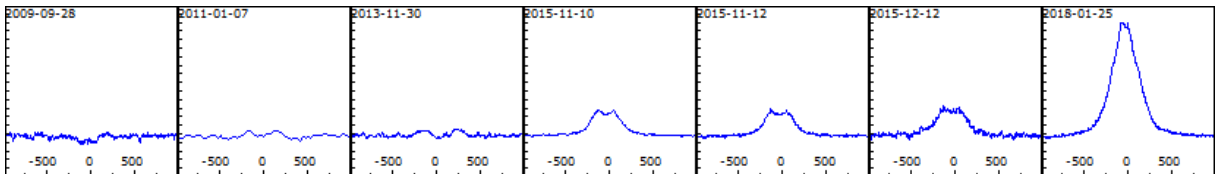
HD 224905



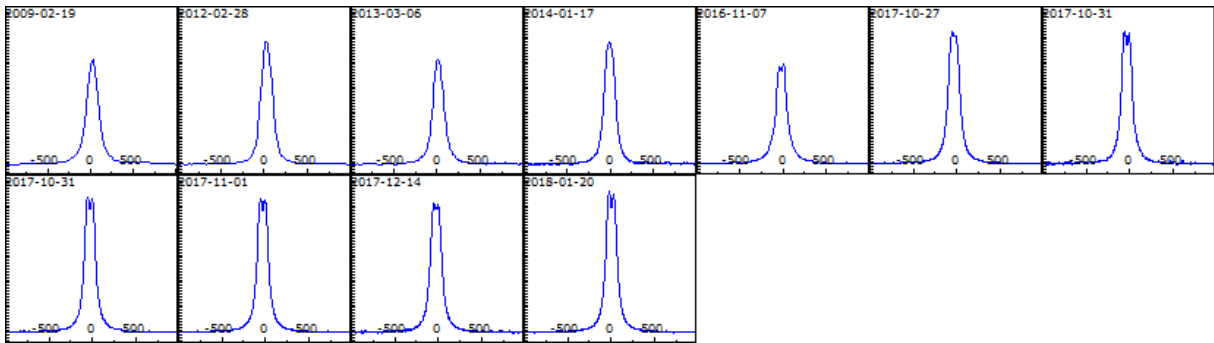
CR Cam



HD 237056

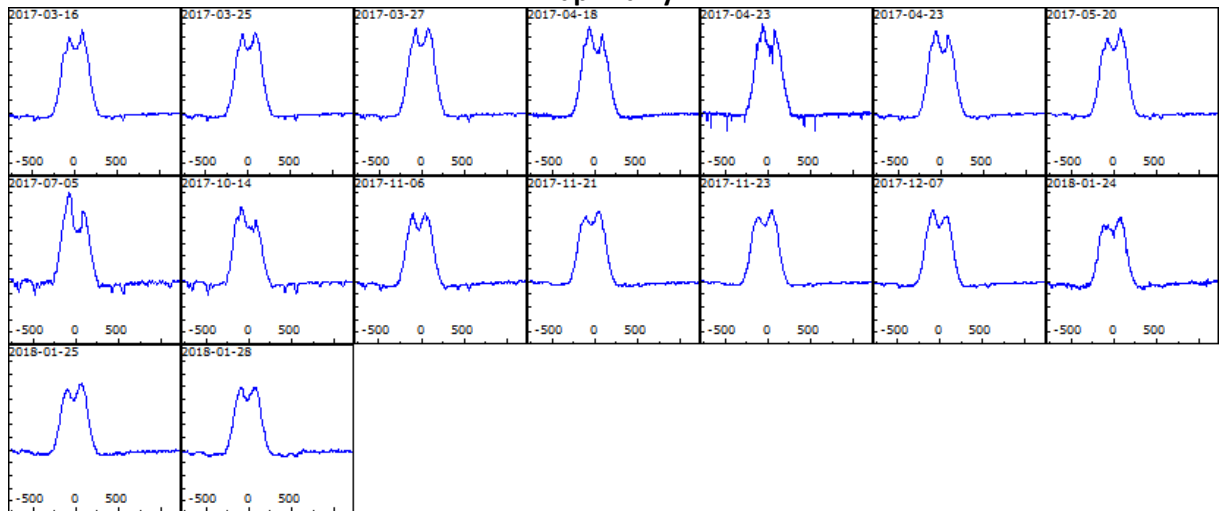


HD 35345

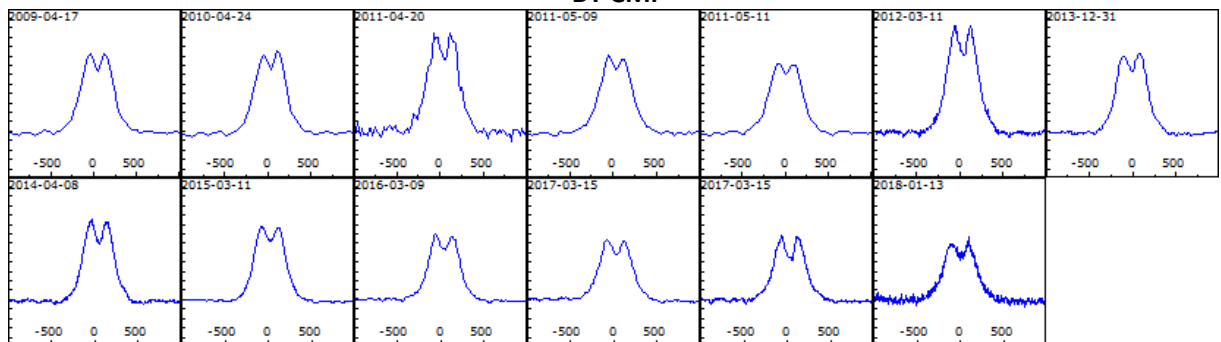


Moderate evolutions of H-alpha line

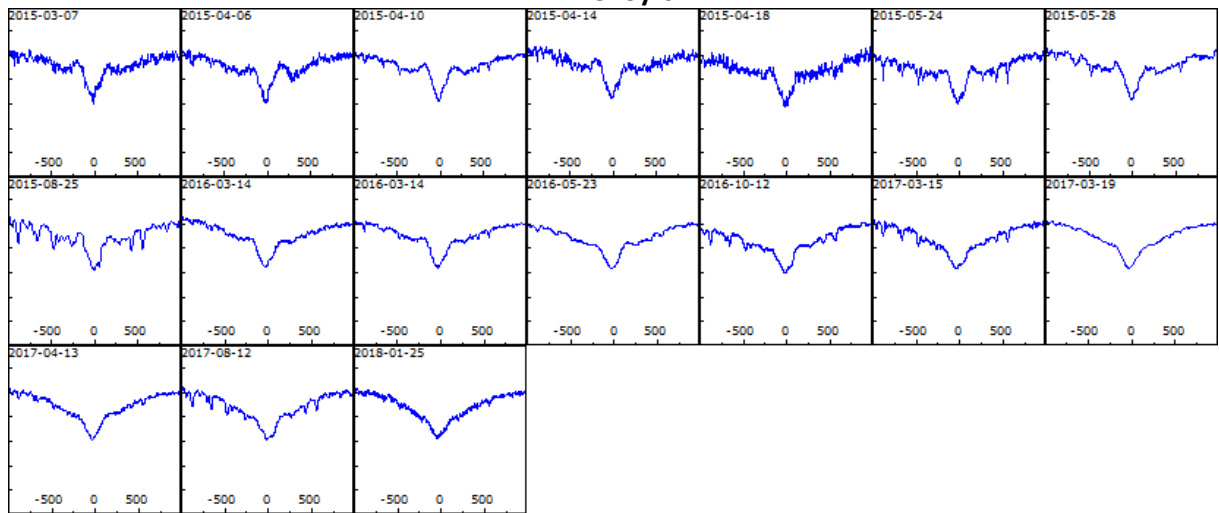
kap Dra 1yr



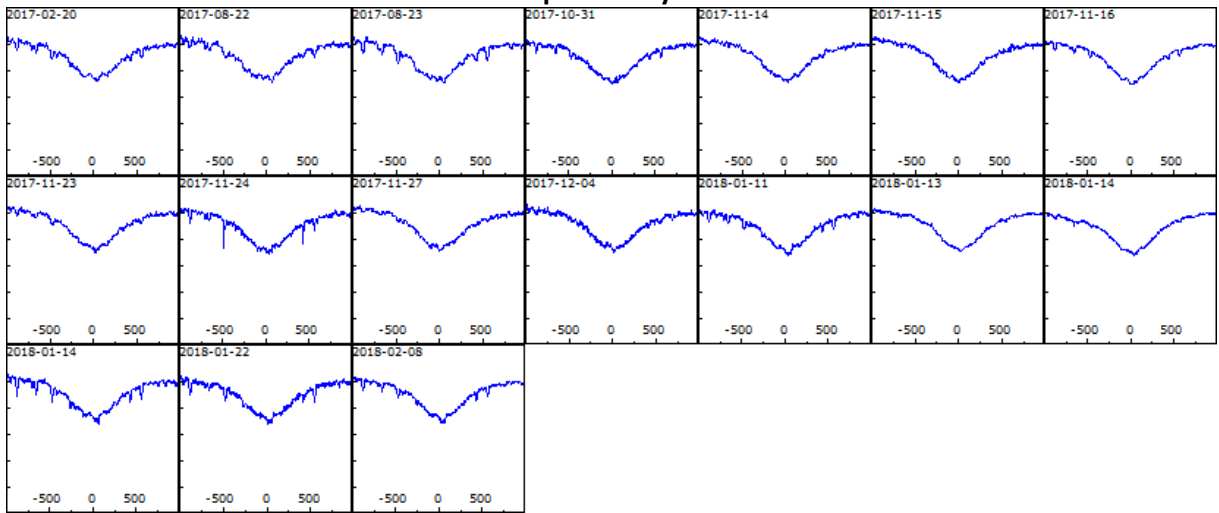
BT CMi



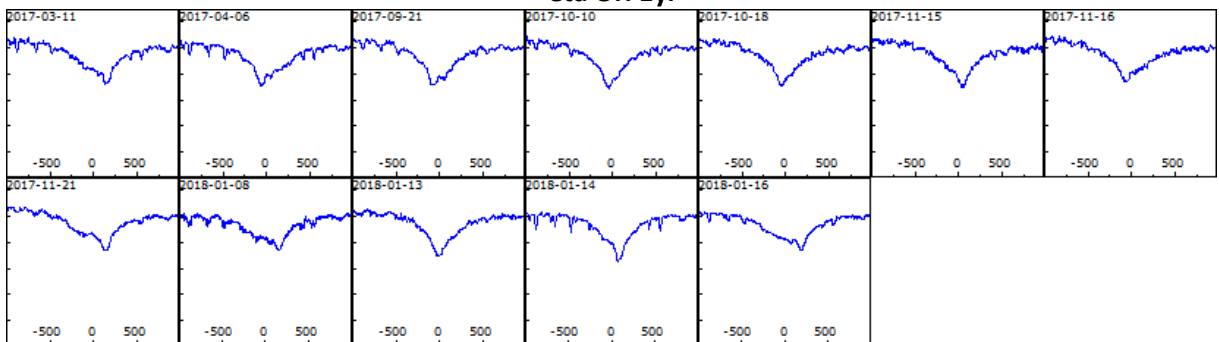
4 Her 3yrs



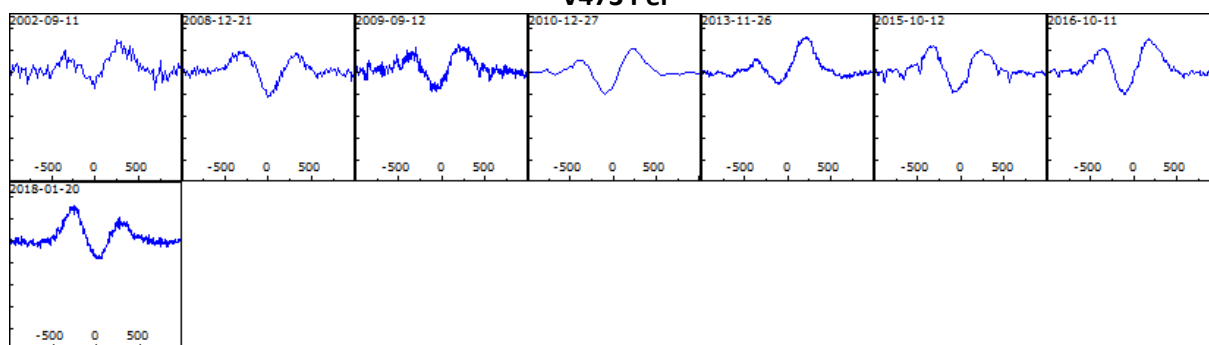
phi And 1yr



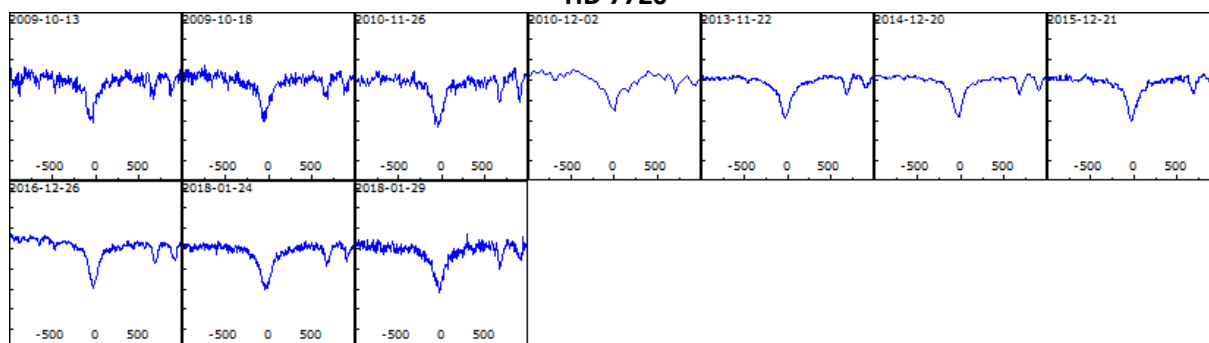
eta Ori 1yr



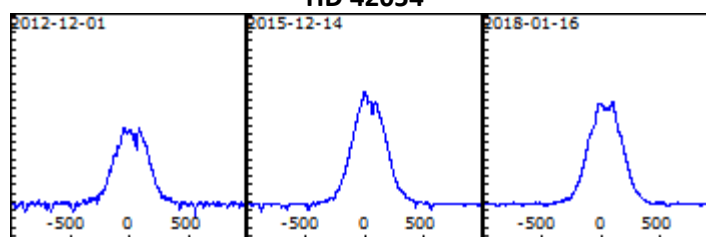
V473 Per



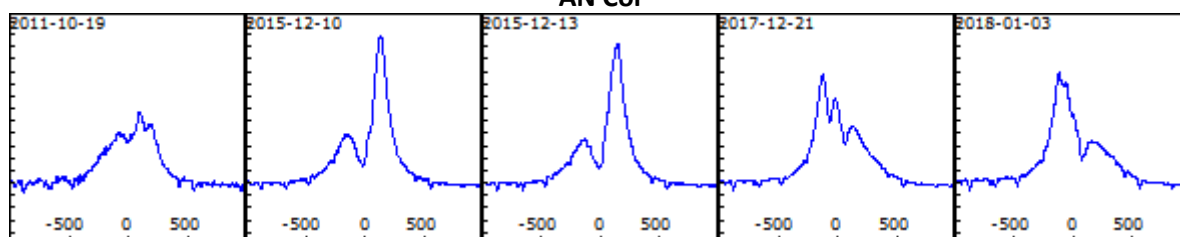
HD 7720



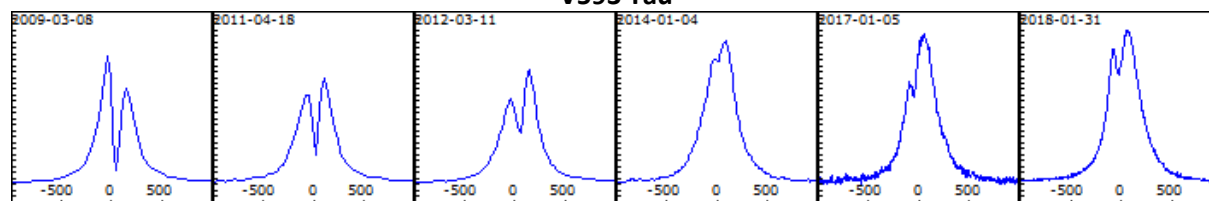
HD 42054

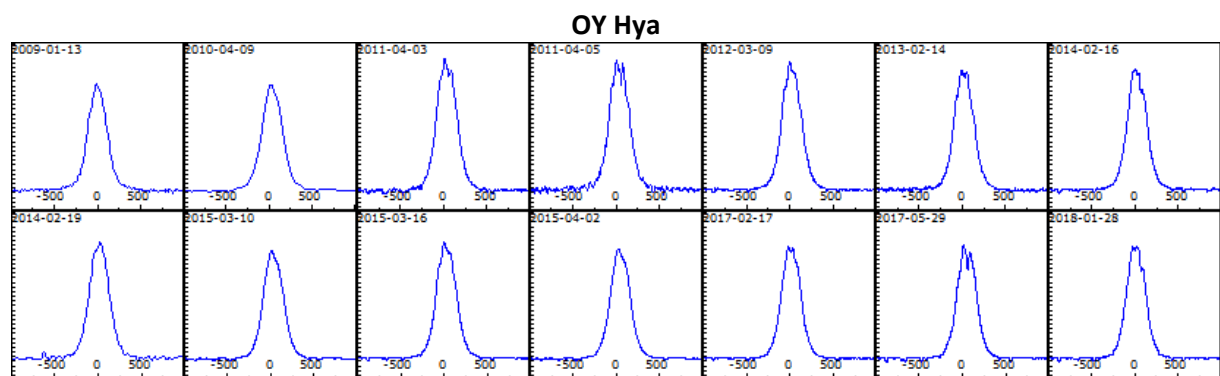


AN Col

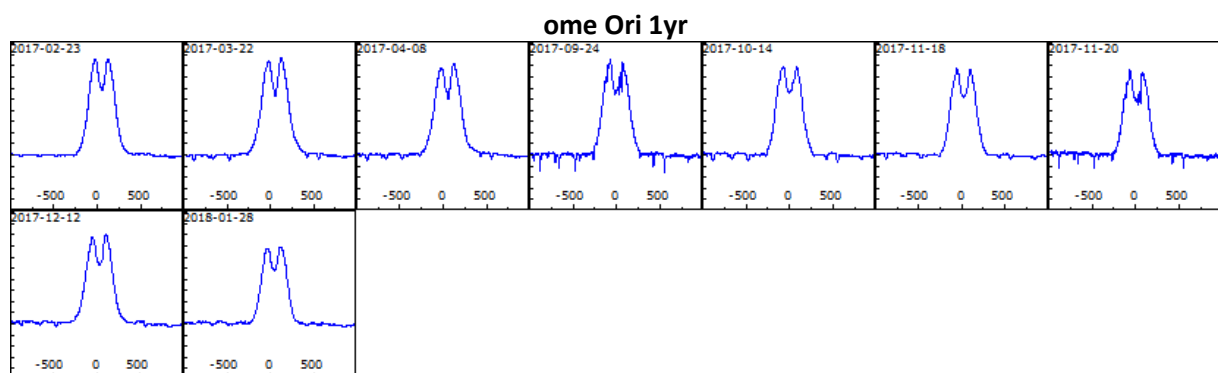
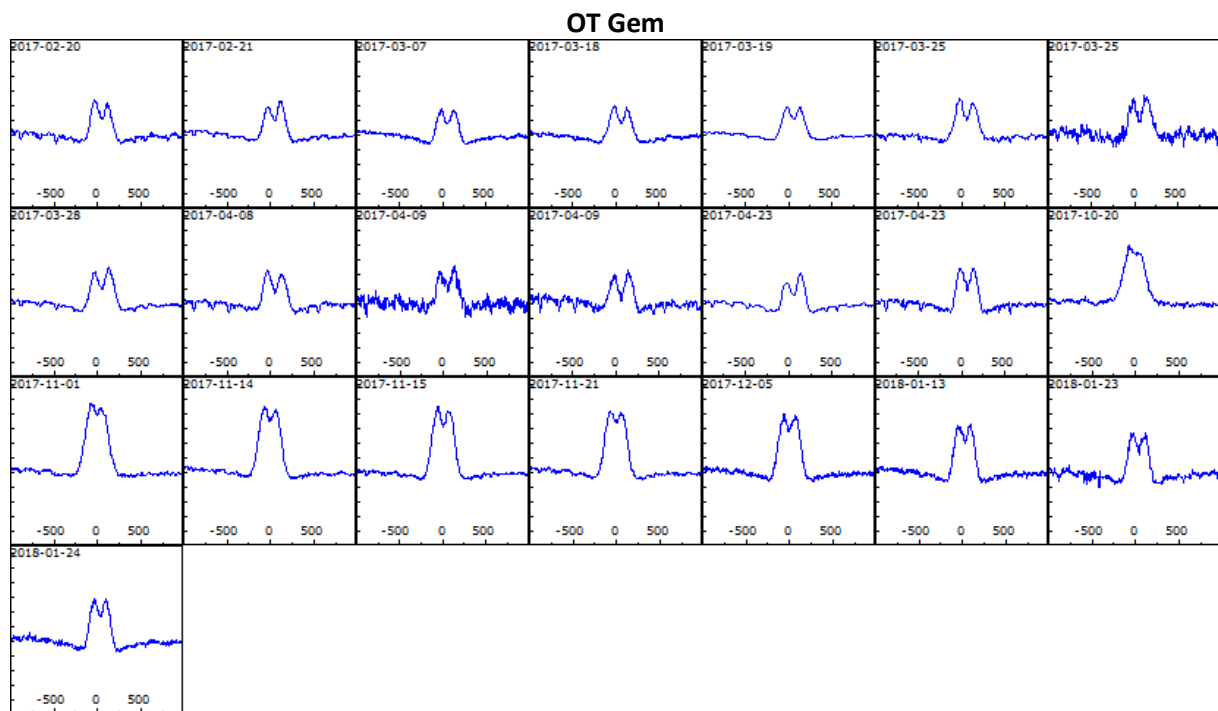


V593 Tau

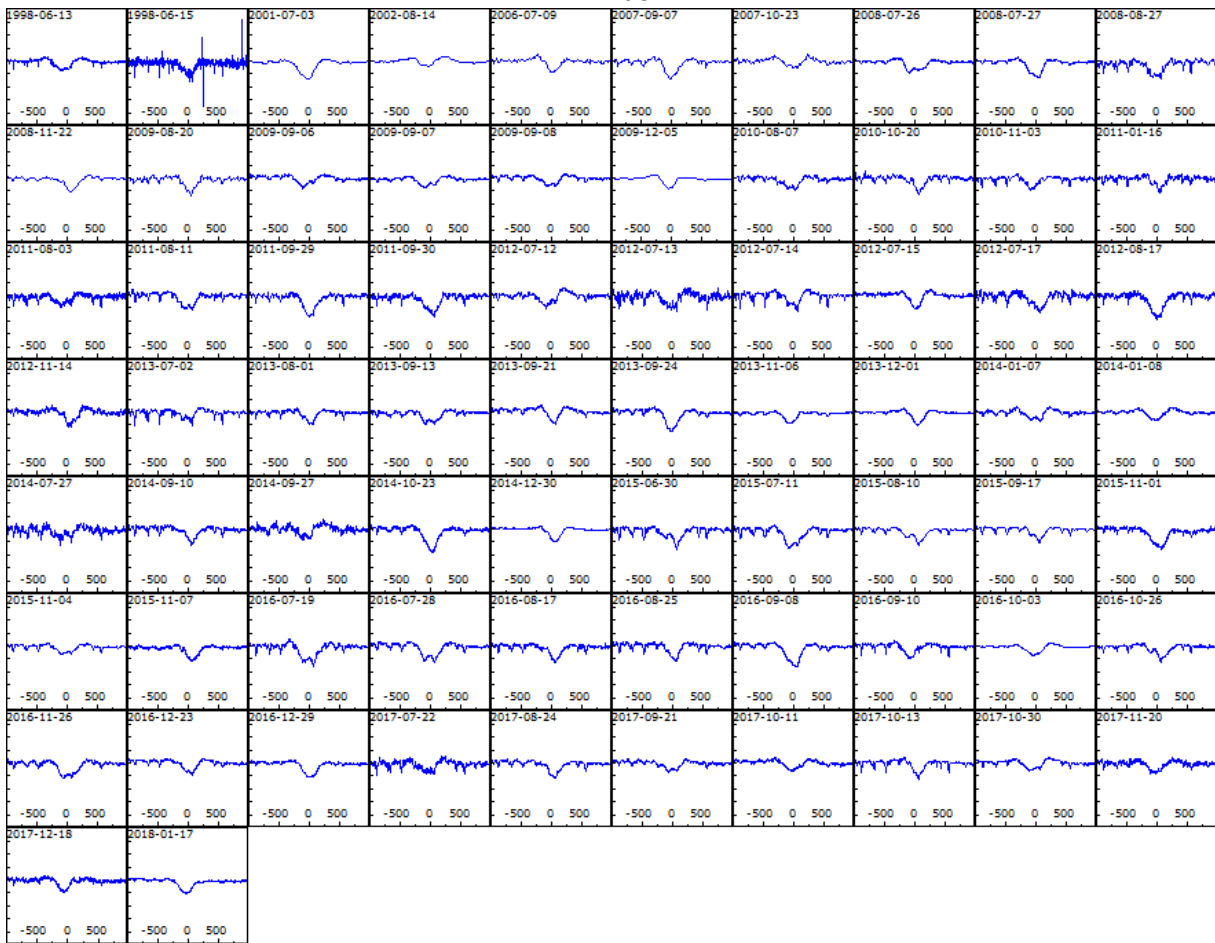




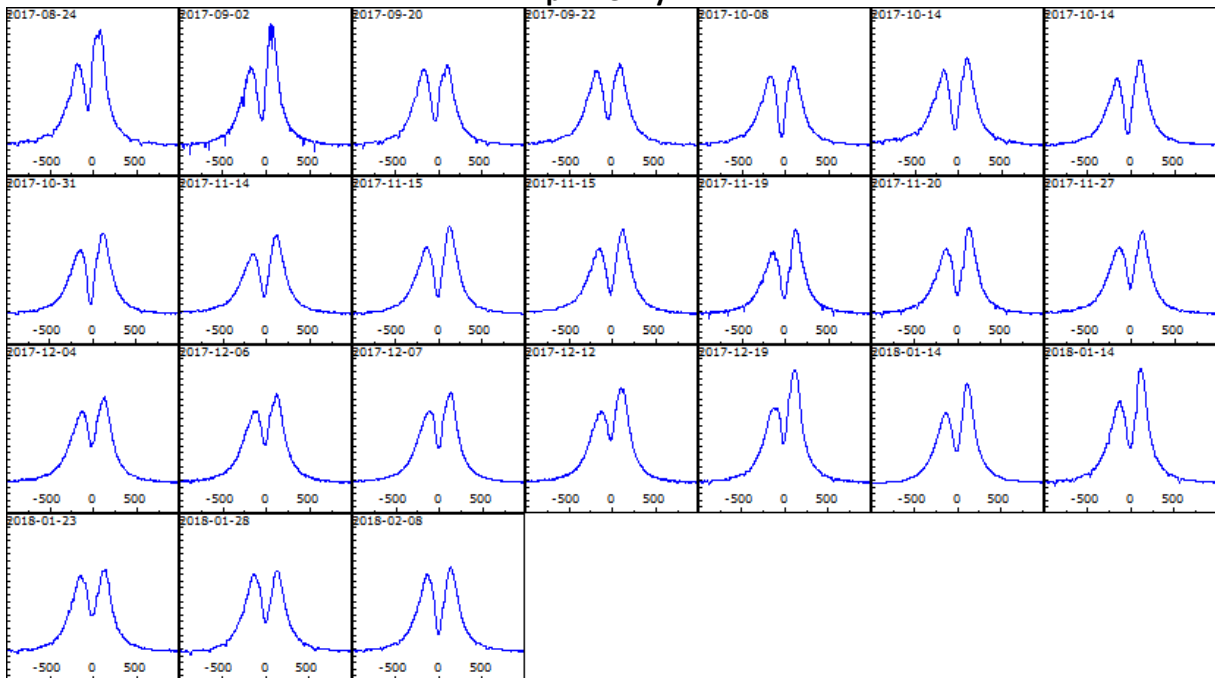
Emission decrease of H-alpha line

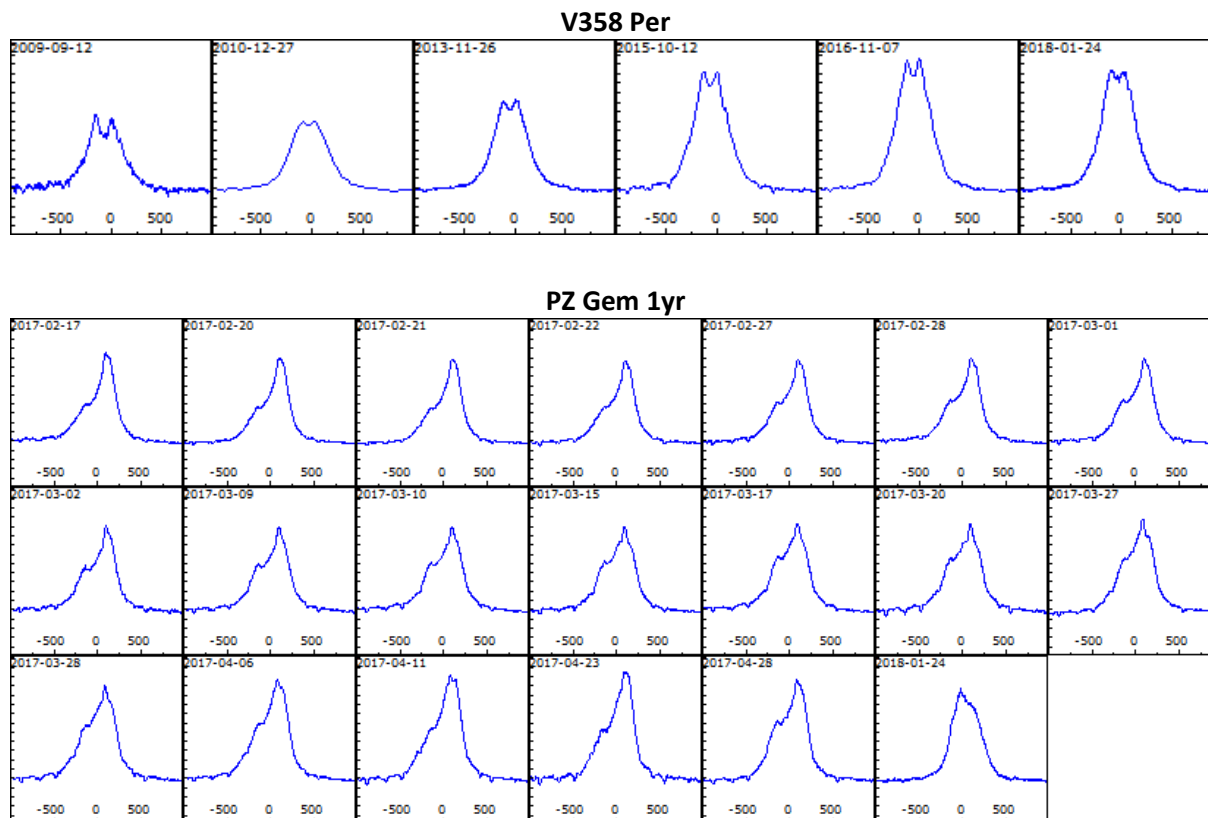


14 Lac



phi Per 1yr



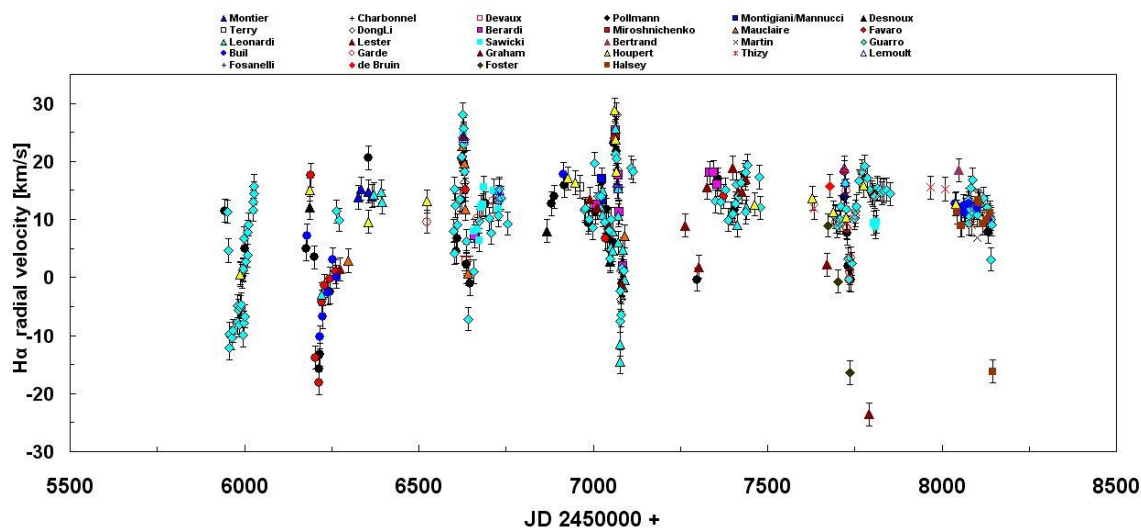


Be monitoring projects

By Ernst Pollmann

Dear colleagues,

it seems that the next periastron passage of 28 Tau is coming somewhat earlier than the ephemerides says. Normally we should expect it around February 18th (this year), but current spectra of Alun Halsey and Joan Guarro are showing a quick change of radial velocity as indicator for that event (see attachment). It would be great, if further observers could dedicate to this event.



BeSS report Materiel & Method

For each star having a spectrum loaded in BeSS database for the monthly report the last six spectra in BeSS are displayed. A visual check is performed to detect any change in the H-alpha profile. Sometimes a copy/paste is needed for subtle evolutions.

For each star, which exhibits a change, the above series are generated with the following steps. Each spectrum is zoomed on the H-alpha line. Each profile is scaled on the continuum on a region around 6580 angströms. The x-axis is converted into Doppler velocity centered on H-alpha.

If too many spectra of the object are available, a shorter period of observation is displayed and thus the length period is indicated (1yr, 3yrs).

All data are processed with Visual Spec with dedicated function to automatically load BeSS spectra and automatize most of the above processing.

Authors

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International Working Group ASPA

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