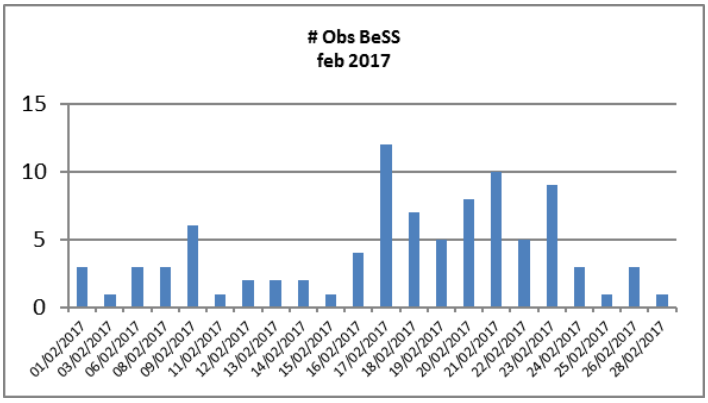
BeSS report – February 2017

Data compiled by Valérie Desnoux – H-alpha monitoring

Observateur	Nb spec
Guarro Fló	21
GARDE	20
Daglen	13
Sawicki	13
Graham	8
Berardi	5
Fosanelli	3
Luckas	3
Pollmann	2
Hudson	2
de Bruin	2
Total général	**92**

- 53 stars were observed
- 11 Observers contributed this month
- 92 Spectra H-alpha



Objects observed

Classique							?	Herbig
gam Cas	zet Crv	phi Per	2 Ori	V378 Pup	V581 Per	LL CMa	V742 Mon	HD 31648
zet Tau	HD 251726	10 Cas	12 Aur	RY Gem	HD 43544	HD 35347		HD 36112
PLEIONE	phi And	25 Ori	V413 Aur	BN Gem	HD 57682	HD 237091		HD 35187B
V442 And	HD 22780	HD 24479	HD 23800	PZ Gem	j Cen	HD 23982		
OT Gem	18 And	228 Eri	HD 42477	OY Hya	HD 51506	V1153 Tau		
5 Cnc	psi Per	V1369 Ori	HD 26398	V743 Mon	V725 Mon	eps Cas		
FF Cam	omi And	V420 Pup	V731 Tau	SX Aur	HD 250980	ome Ori		

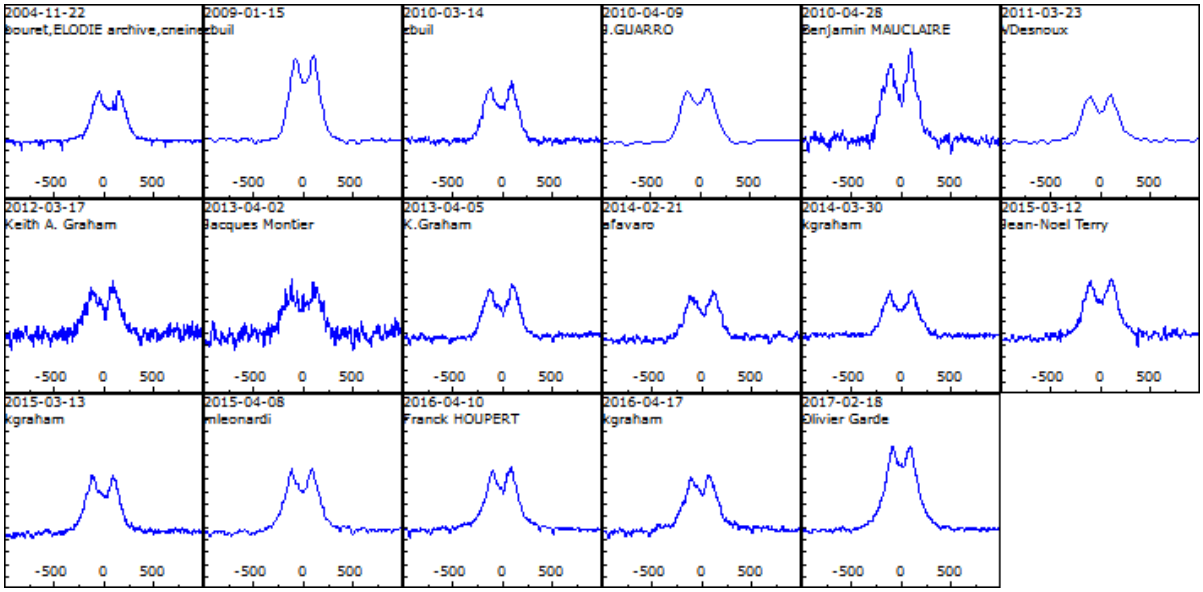
Events of the month…

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

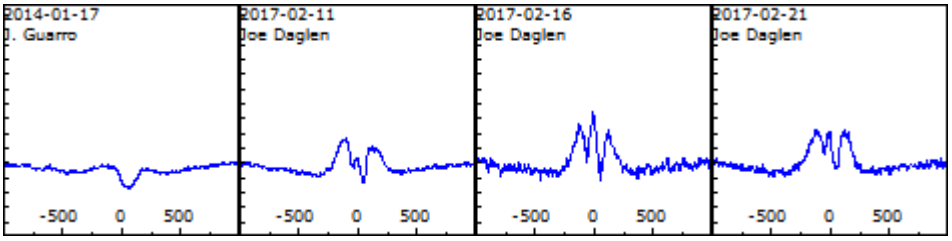
EE	ME	DE
BN Gem	228 Eri	12 Aur
HD 237091	RW Tau	FF Cam
HD 35187B	HD 36112	j Cen
HD 35347	phi And	
HD 57682	phi Per	
LL CMa		
OT Gem		
V1153 Tau		
V420 Pup		
V581 Per		
V725 Mon		

Emission increase since last observations

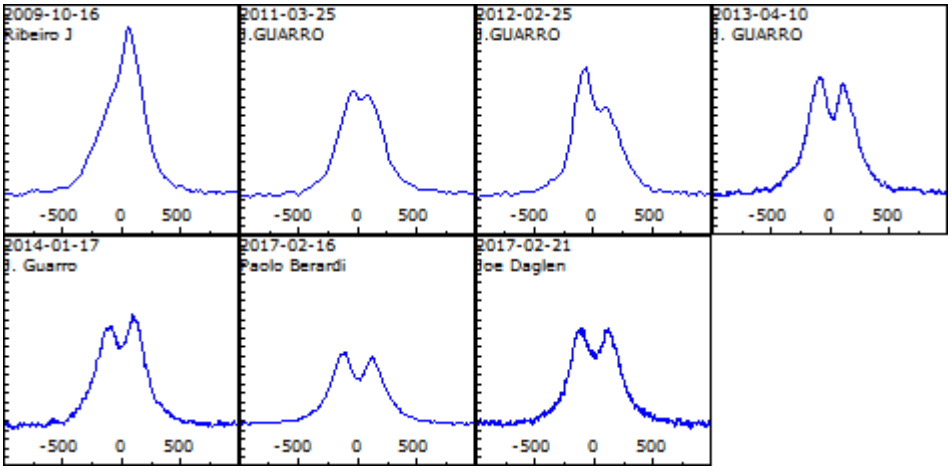
BN Gem



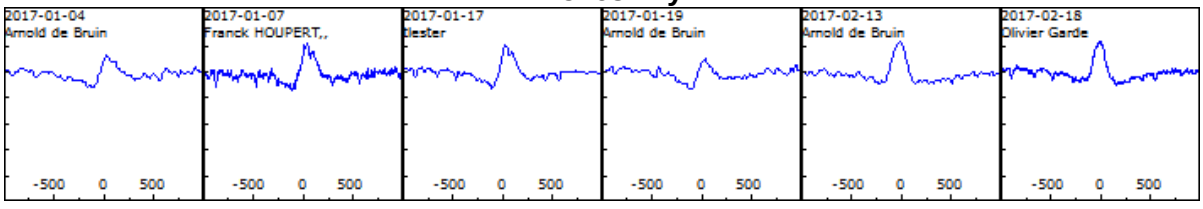
HD 35187B



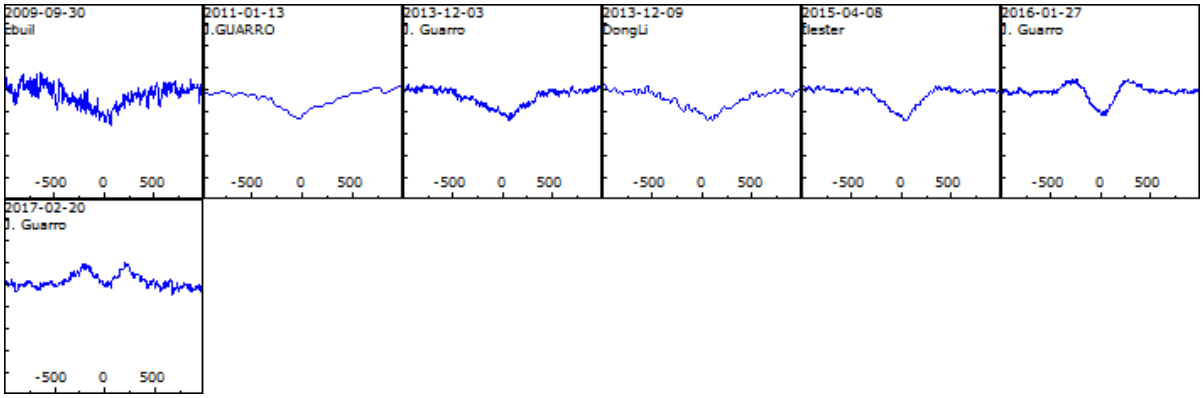
HD 35347



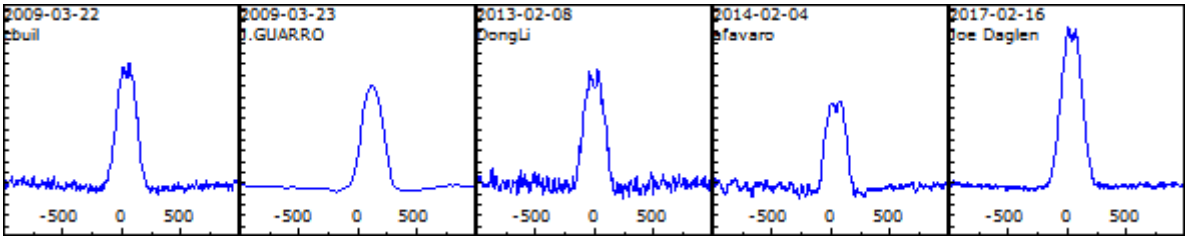
HD 57682 1yr



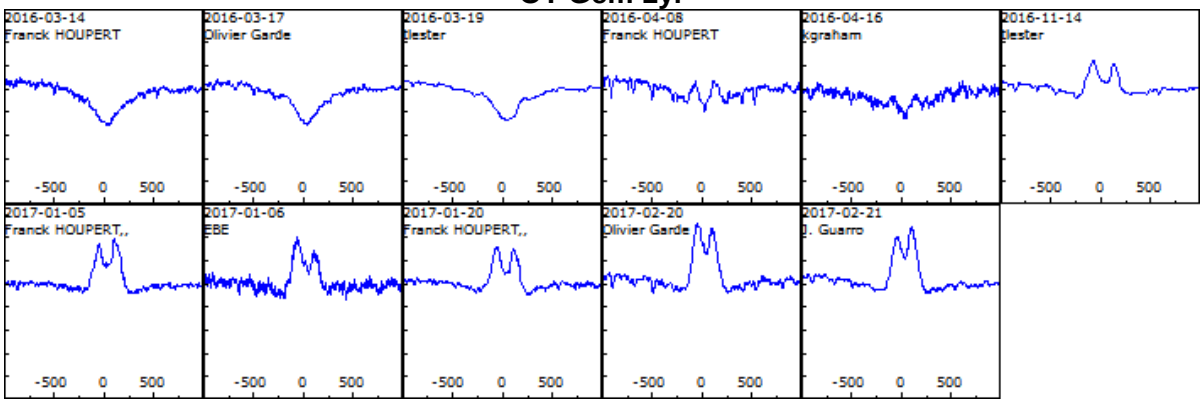
HD 237091



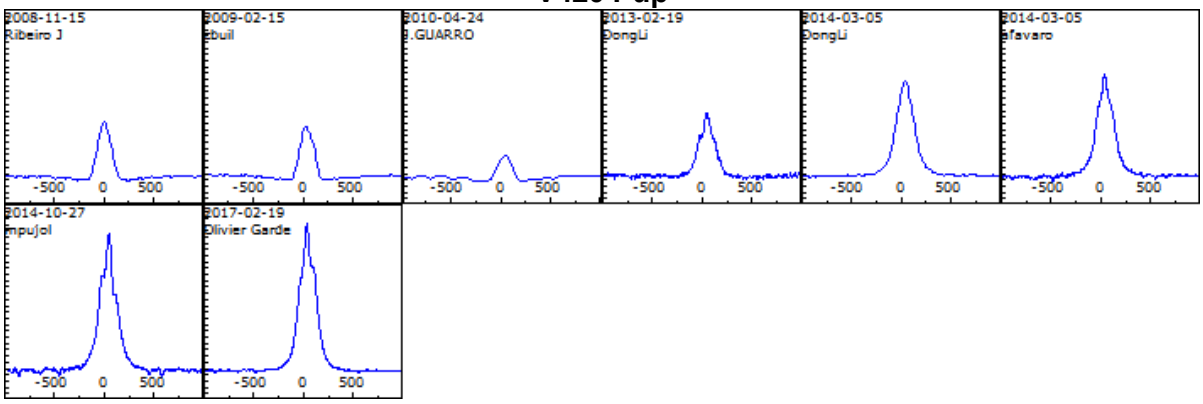
LL Cma



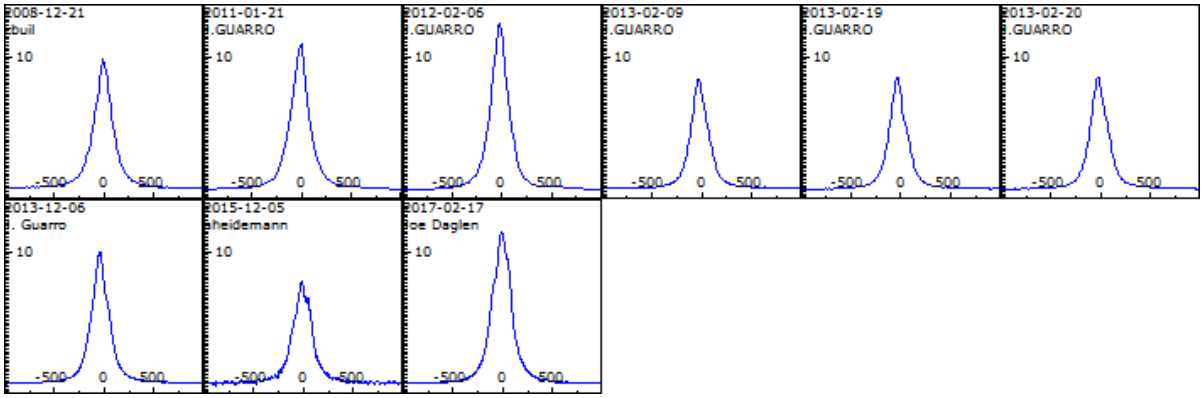
OT Gem 1yr



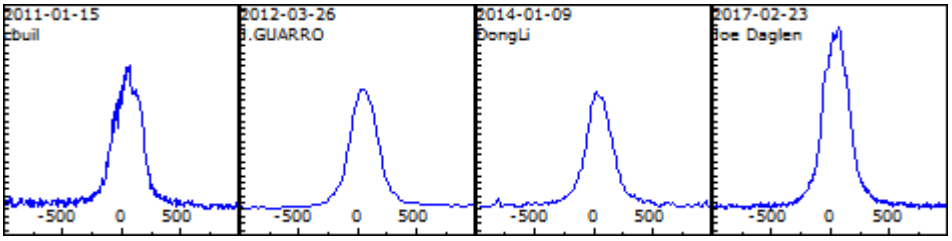
V420 Pup



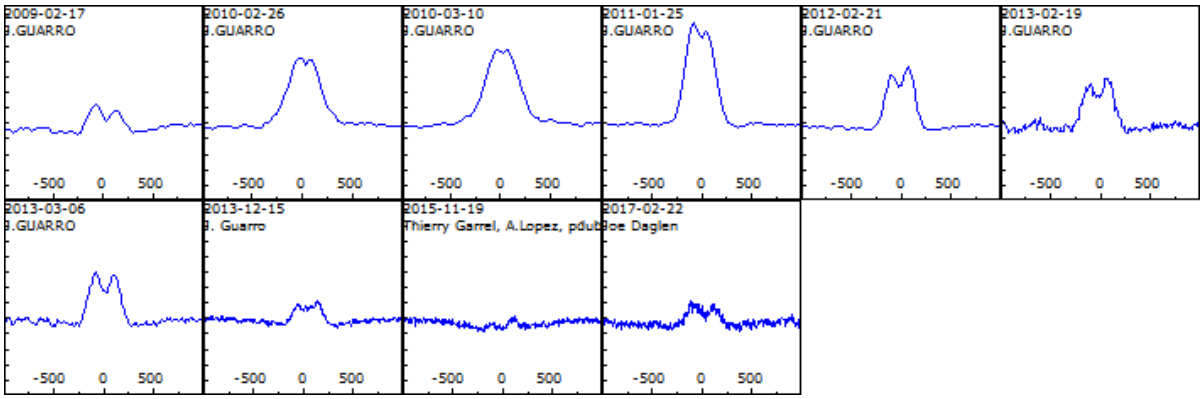
V581 Per



V725 Mon

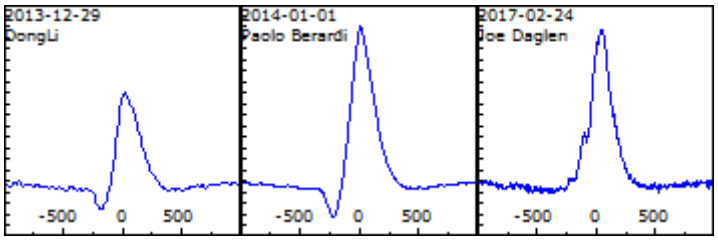


V1153 Tau

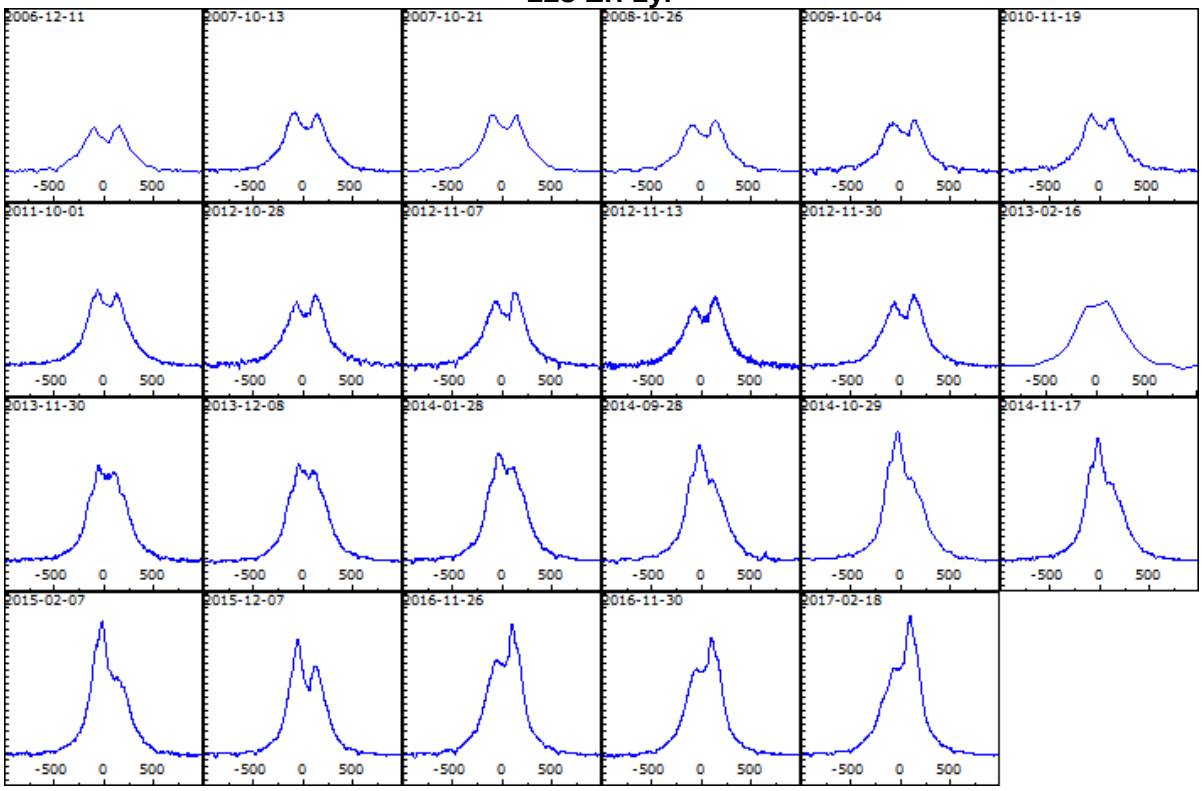


Moderate evolutions of H-alpha line

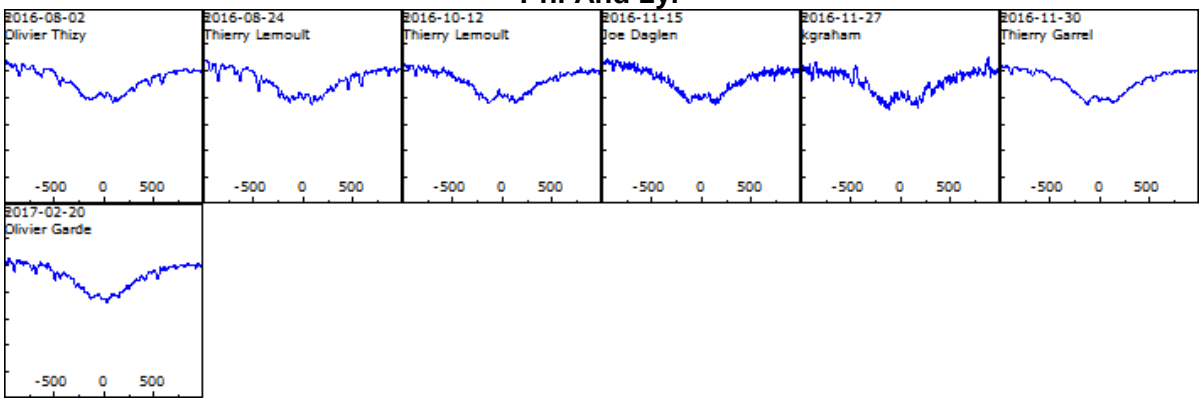
HD 36112



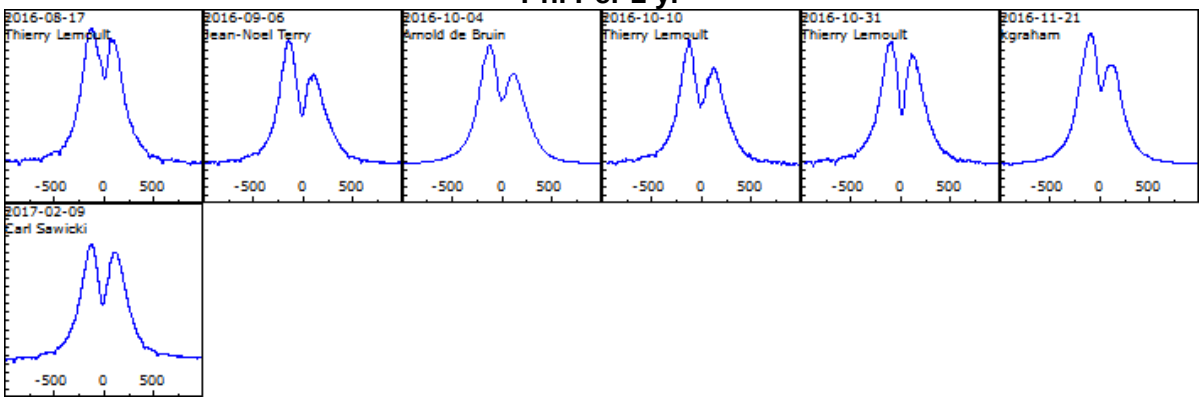
228 Eri 1yr



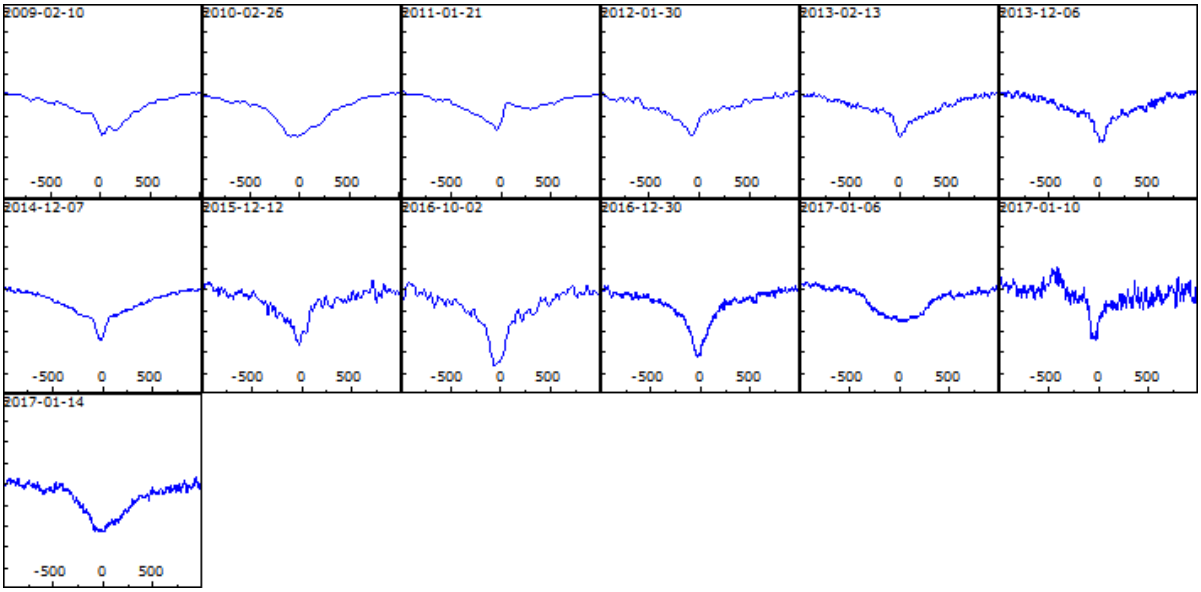
Phi And 1yr



Phi Per 1 yr

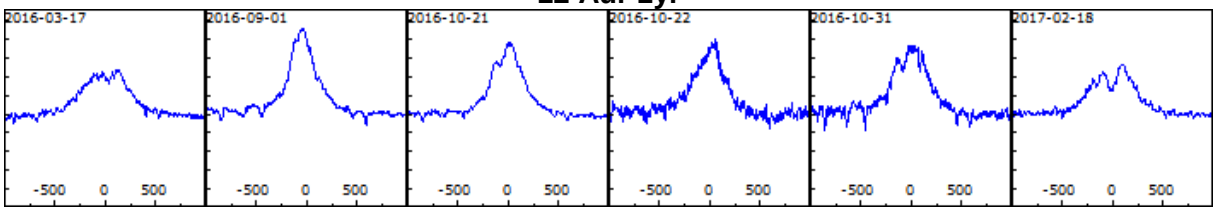


RW Tau

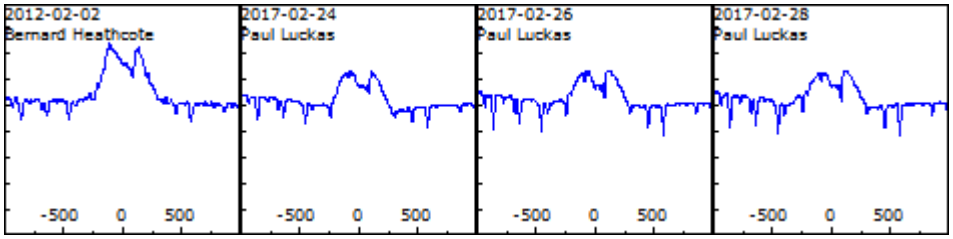


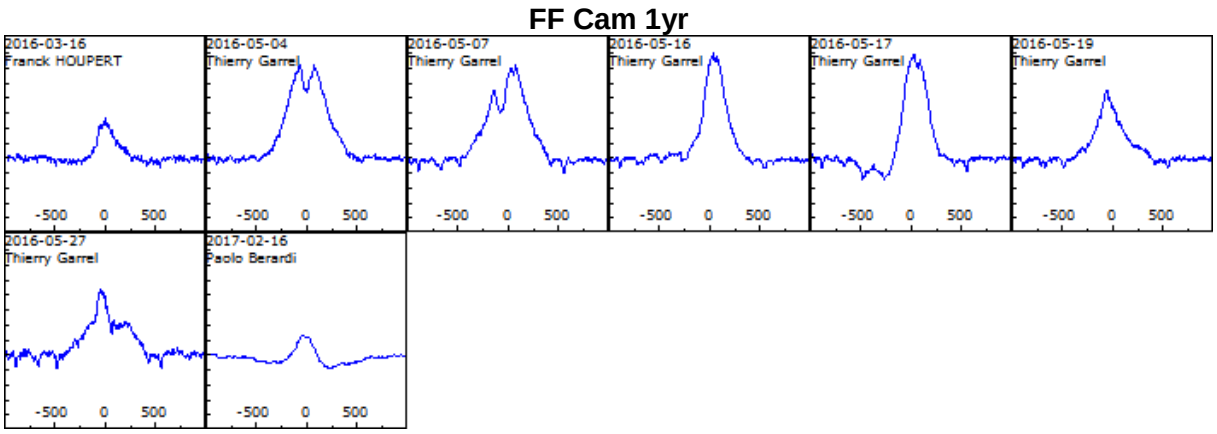
Emission decrease of H-alpha line

12 Aur 1yr



J Cen





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 Heliocentric correction is applied, and 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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Aras Site at http://www.astrosurf.com/aras/
BeSS database at http://basebe.obspm.fr/basebe/
ArasBeAM portal at http://arasbeam.free.fr/