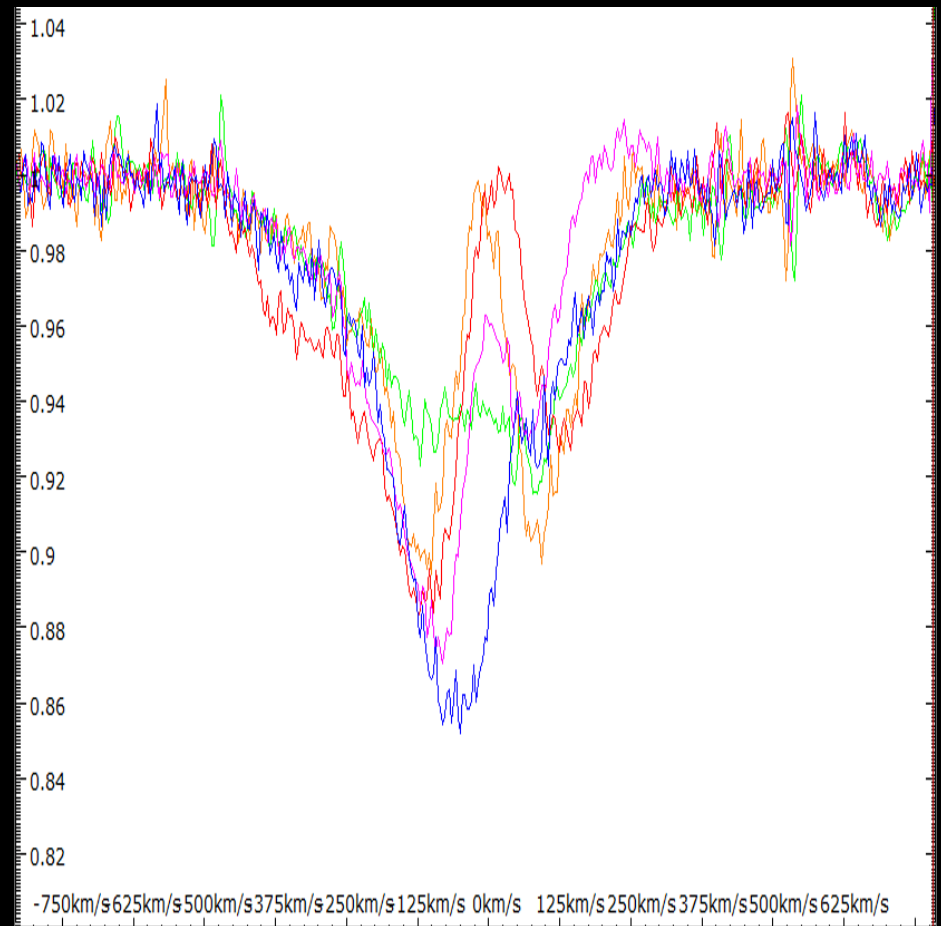


Spectrography Using Small Telescopes



Synopsis

- Aim of this talk

Synopsis

- Aim of this talk
- **Applicability**

Synopsis

- Aim of this talk
- Applicability
- **Examples**

Synopsis

- Aim of this talk
- Applicability
- Examples
- Specifications and operational range

Synopsis

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- **Conclusions**

Aim of this talk

- Inform the scientific community on the possibilities of the use of small telescopes for stellar spectrography

Aim of this talk

- Inform the scientific community on the possibilities of the use of small telescopes for stellar spectrography
- **Present results**

Applicability

- Long-term campaign observations

Applicability

- Long-term campaign observations
- **Ground support to photometric satellites**

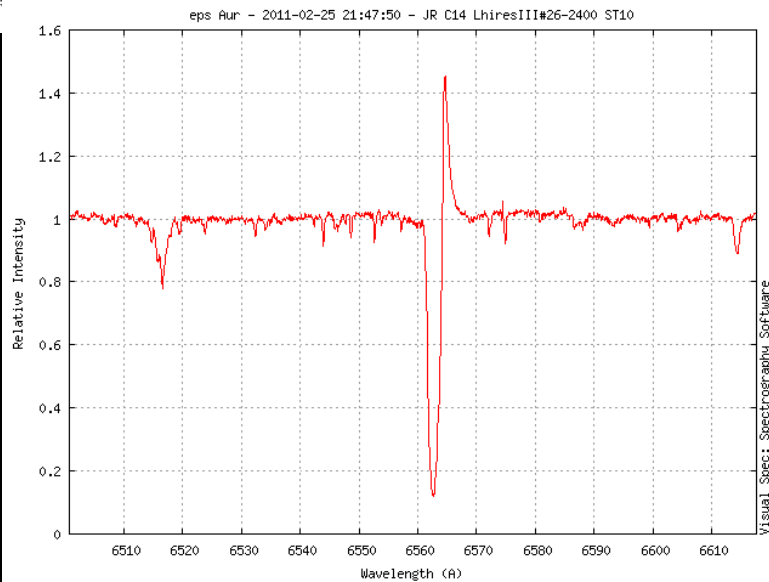
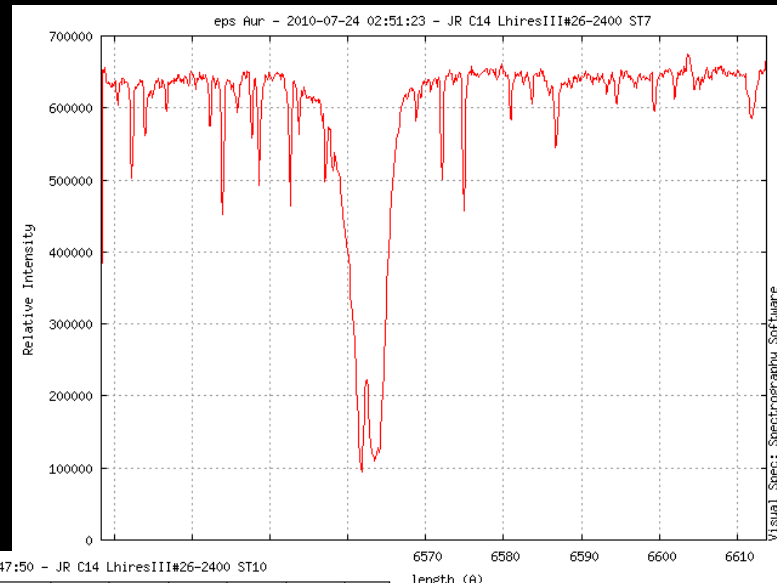
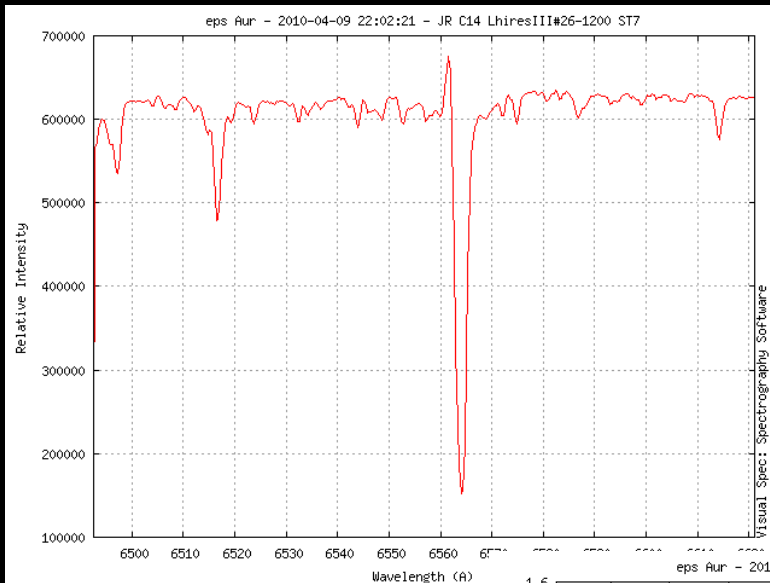
Applicability

- Long-term campaign observations
- Ground support to photometric satellites
- **Urgent observations, alerts**

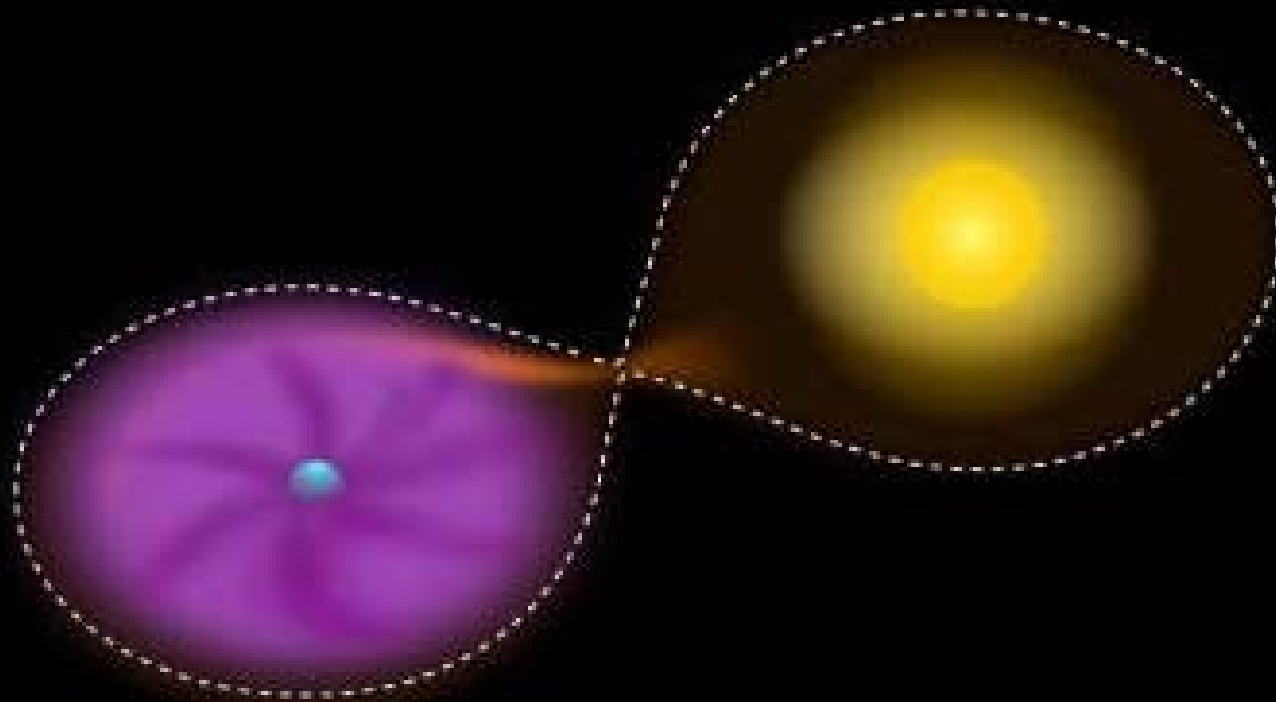
Applicability

- Long-term campaign observations
- Ground support to photometric satellites
- Urgent observations, alerts
- **Database feeding**

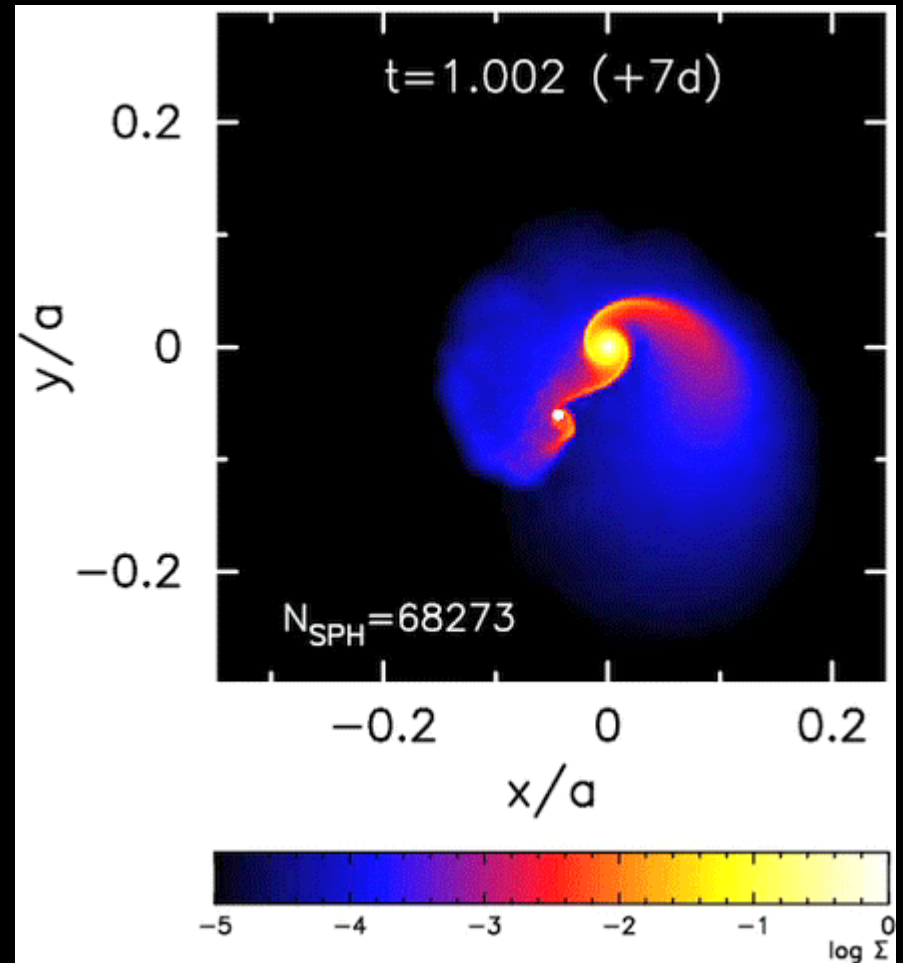
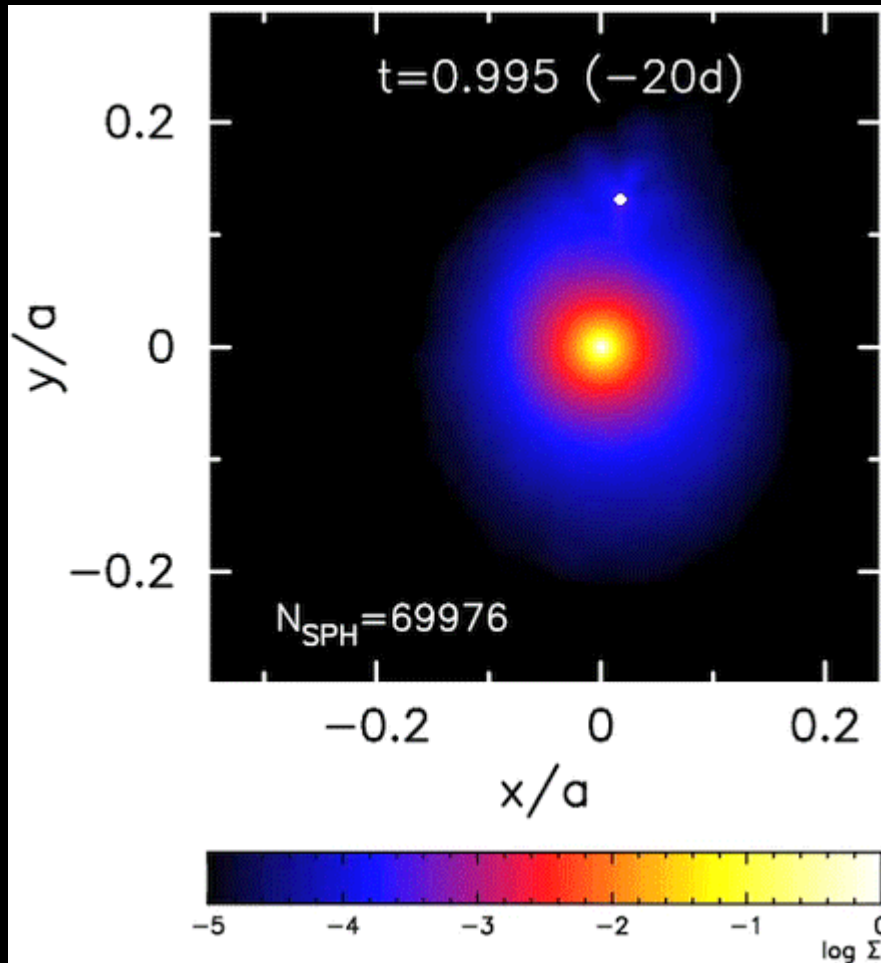
Examples - eps Aur eclipse 2009-2011



Examples - eps Aur eclipse 2009-2011



Examples – del Sco petiastron 2011



Atsuo Okazaki

Examples – del Sco petiastron 2011

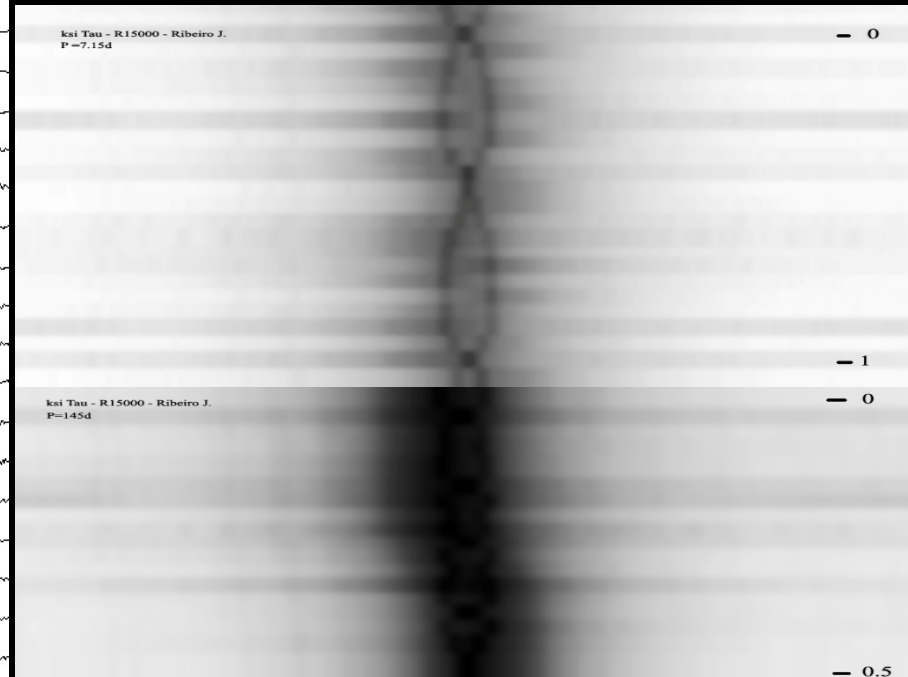
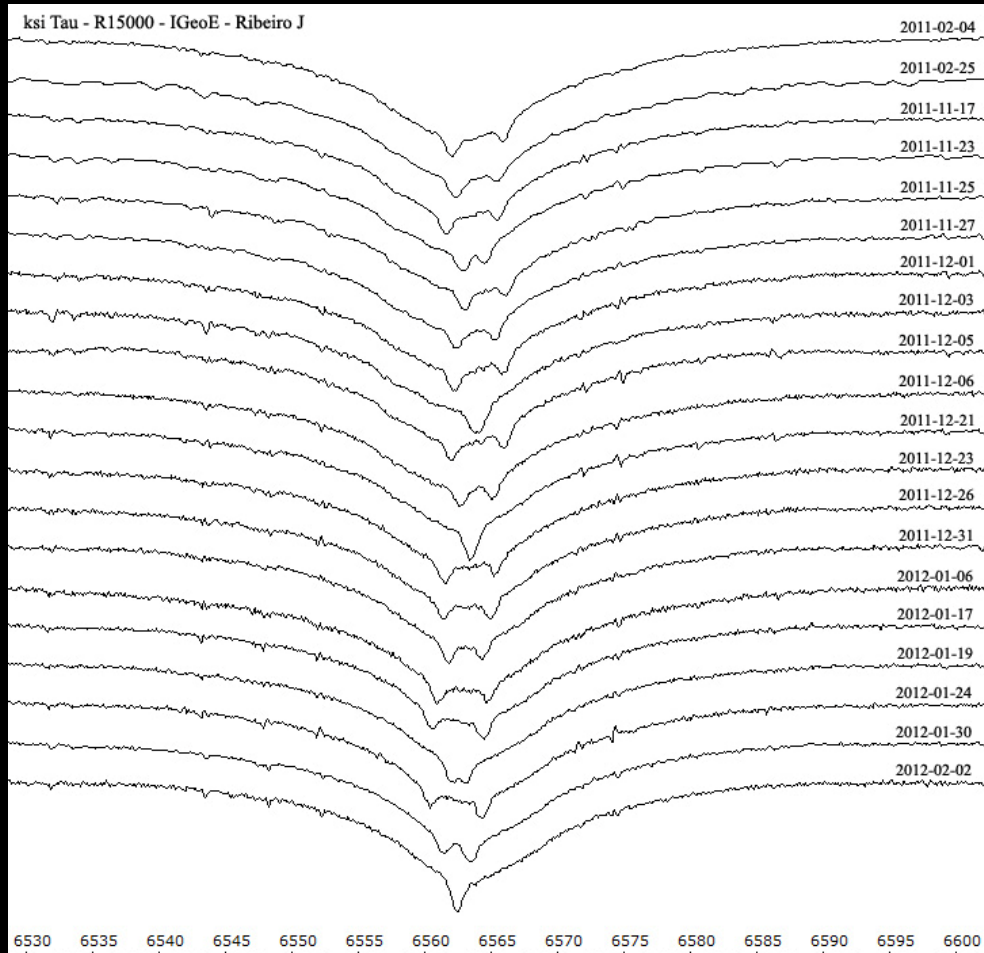


C14-IGeoE

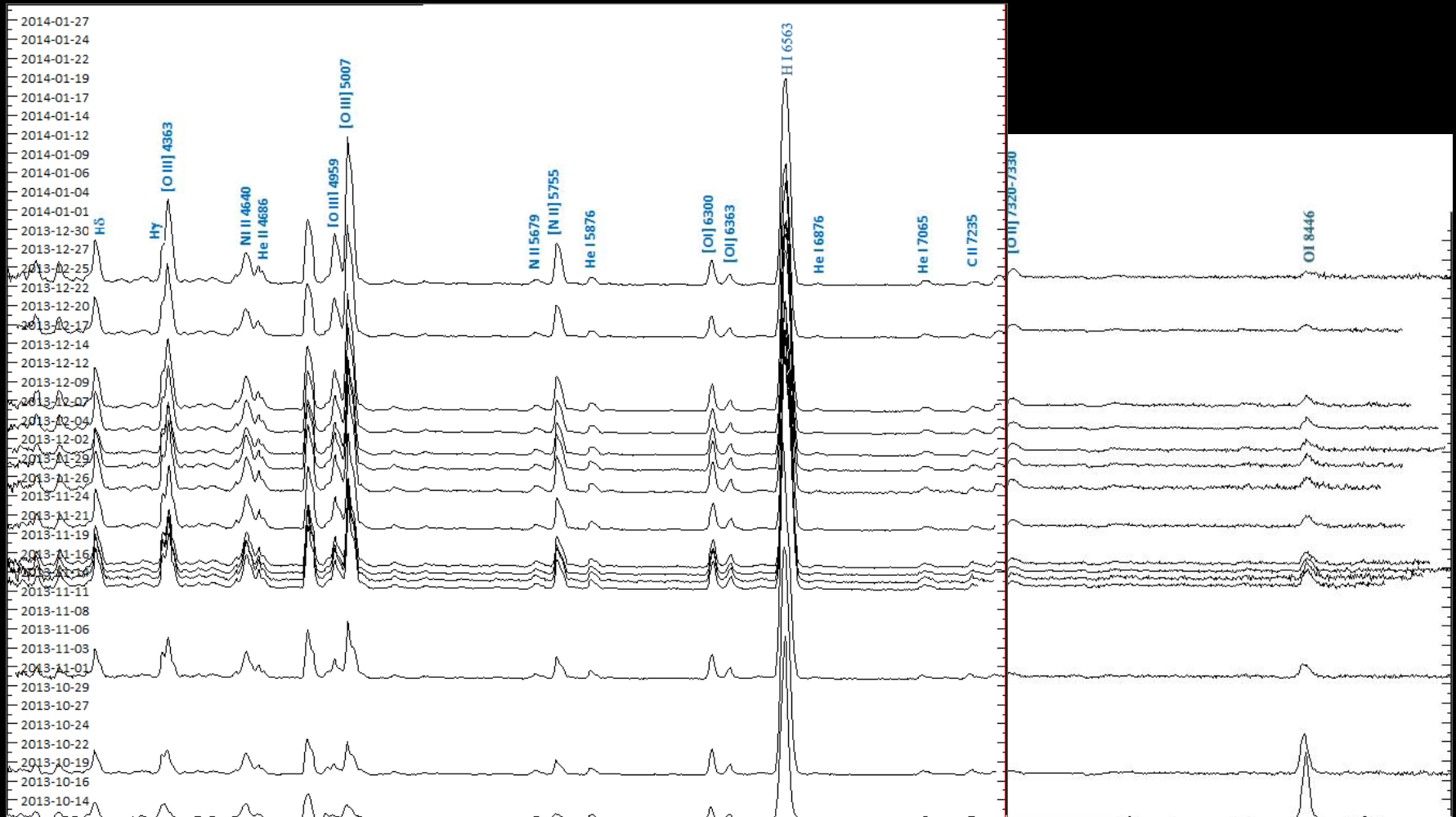


IAC80-Tenerife

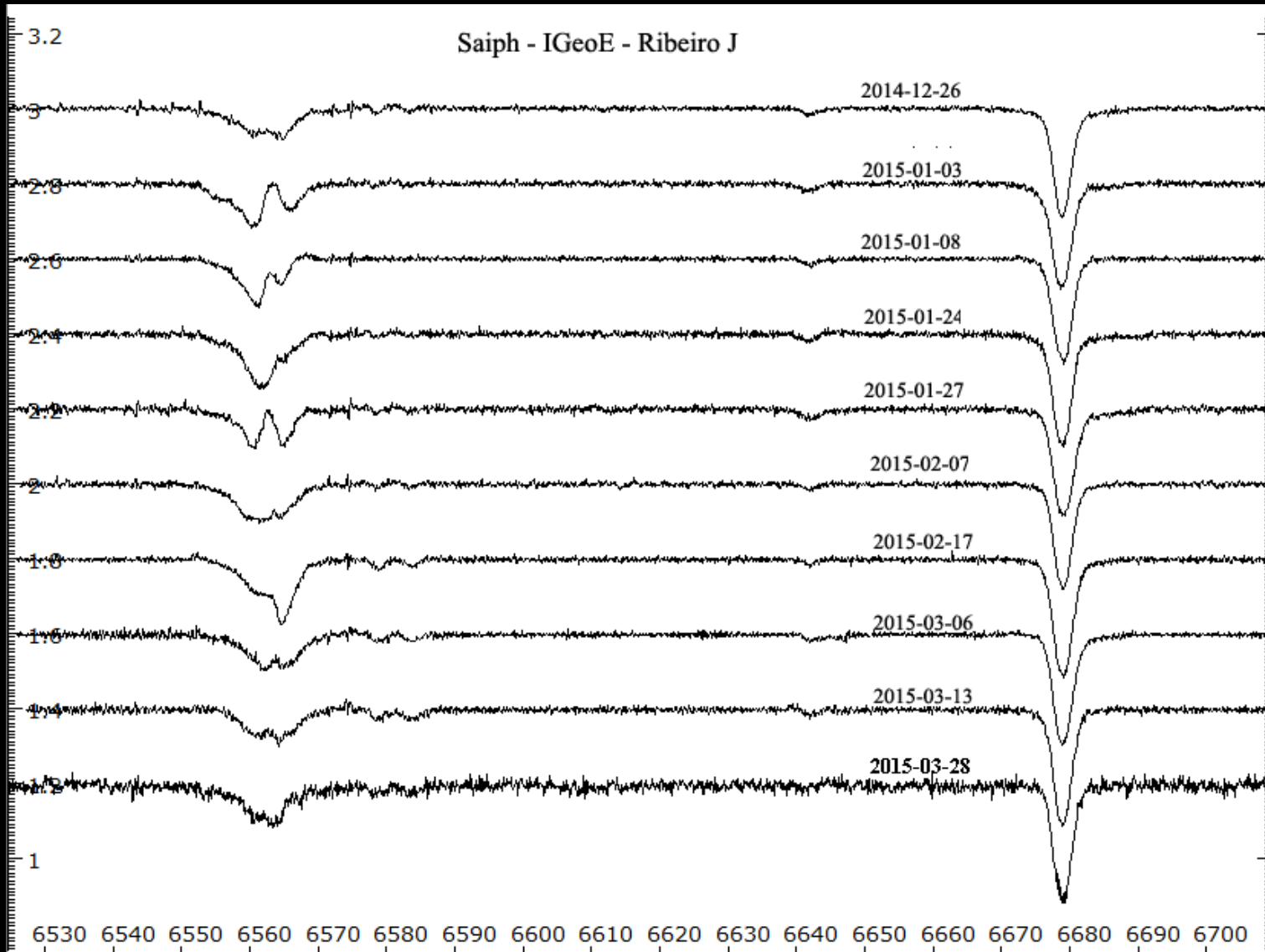
Examples - ksi Tau campaign 2012



Examples - V339 Del campaign 2013



Examples - BRITE campaign on Orion 2014-2015



Examples - Database Feeding



Database of Be Star Spectra





Menu

- [Home](#)
- [Be stars](#)
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Member Zone

Observer

Password

Visits
 25440 visitors since

	<u>Munari</u>	Ulisse	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	67
	<u>Neiner</u>	Coralie	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	37180
	<u>Pollmann</u>	Ernst	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	248
	<u>Pujol</u>	Michel	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	370
	<u>Queloz</u>	Didier	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	134
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	<u>Roux</u>	Sylvain	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	10
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	<u>SAUTY</u>	Pascal	<input type="button" value="See the list"/>	<input type="button" value="See the list"/>	4

Specifications for telescopes 20 to 40 cm aperture

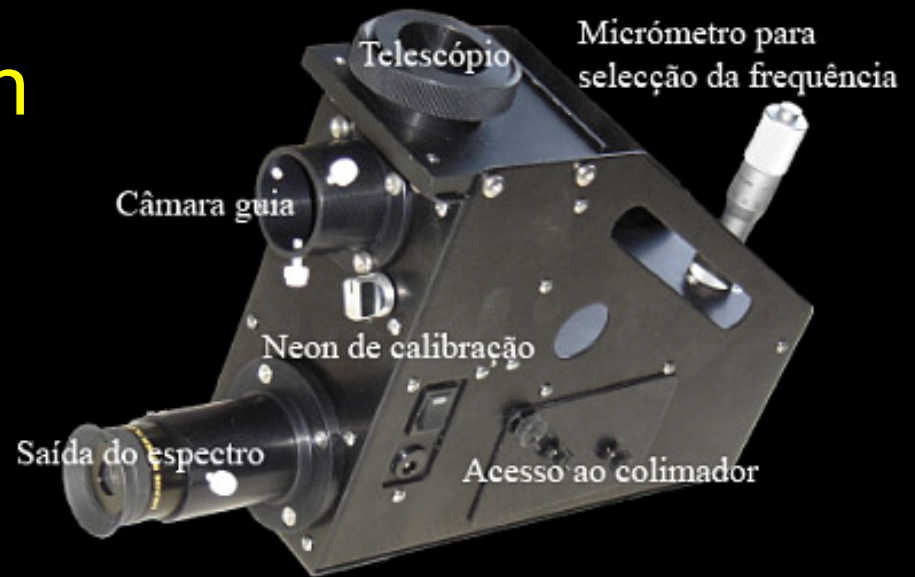
Littrow slit spectrograph

$$m(V) < 7$$

SNR > 100 for 1h exposure

$$R = 17000 @ 6563 \text{ \AA}$$

$$BW = 200 \text{ \AA} @ 6563 \text{ \AA} \text{ for KAF3200 CCD}$$



Specifications for telescopes 20 to 40 cm aperture

Low resolution slit
transmission grating
spectrograph

$m(V) < 14$

$R = 600$

$SNR > 100$ for 1h exposure

BW 3500 to 8500 Å for
KAF3200 CCD



Specifications for telescopes 20 to 40 cm aperture

Echelle optical fiber spectrograph

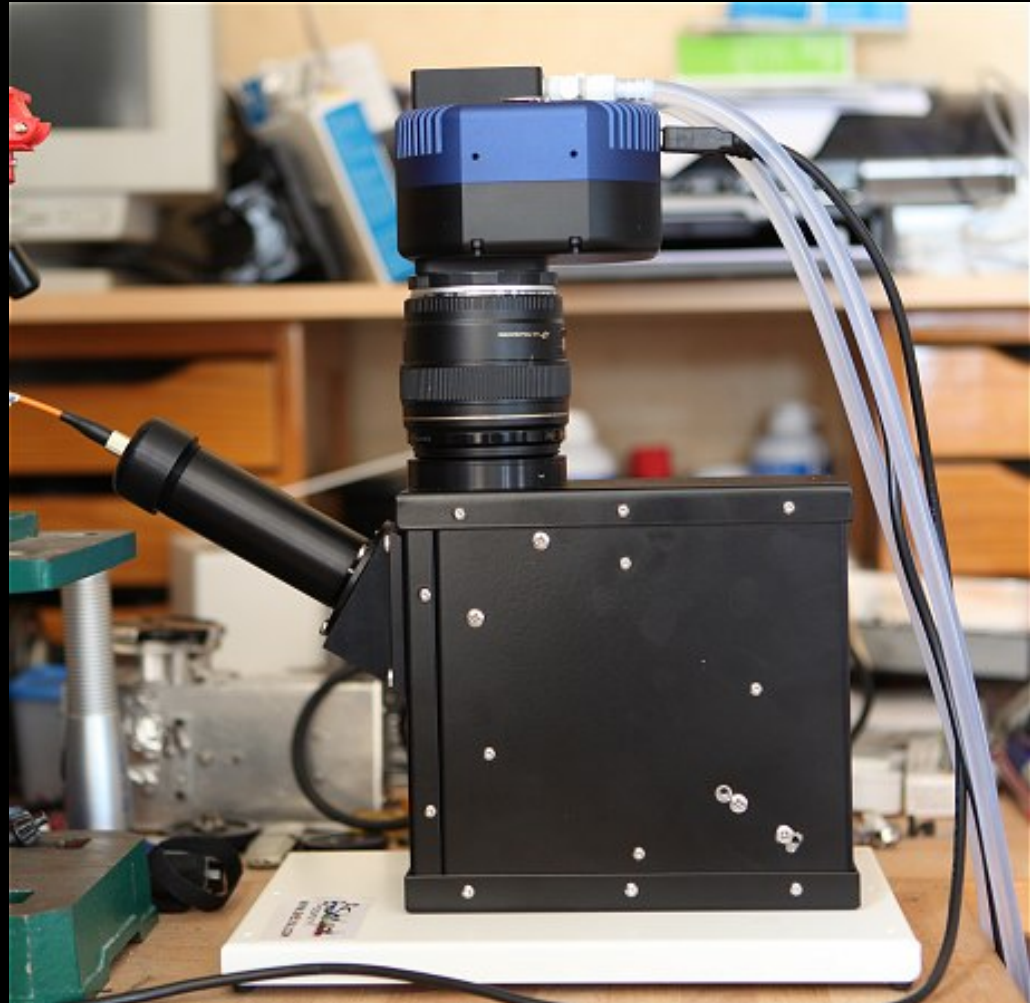
$$m(V) < 9$$

SNR > 100 for 1h exposure

$$R = 11000$$

BW 3700 to 7000 Å

RV > 75 m/s with CCF



Conclusions

AAVSO → Photometry

ARAS → Spectrography

Conclusions



Thank You for Listening!

