

SALT Science Programs at Göttingen

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Mafikeng, Nov. 2013



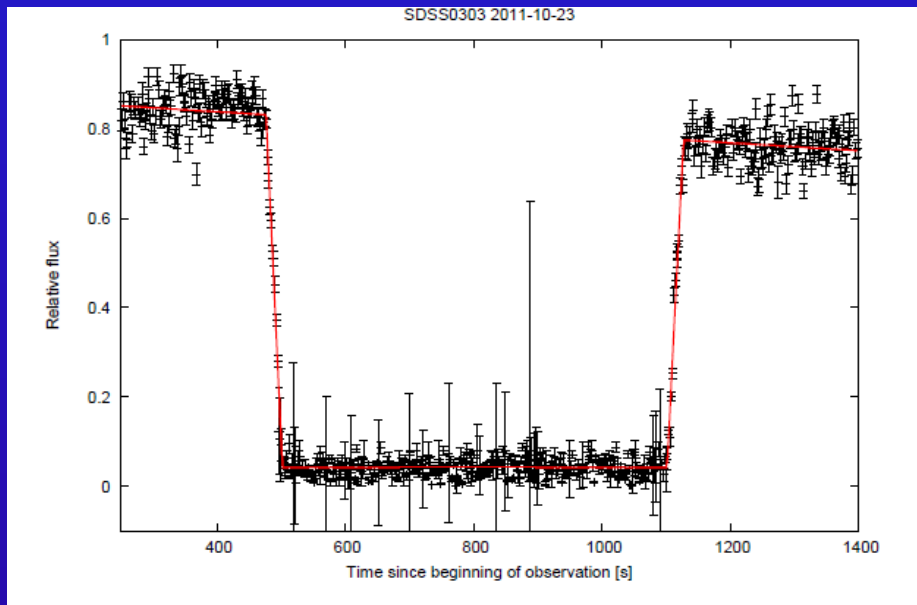
University Observatory



Institute for Astrophysics

Search for planets in eclipsing binaries (Stefan Dreizler, Tim Oliver Husser et al.)

with SALTICAM



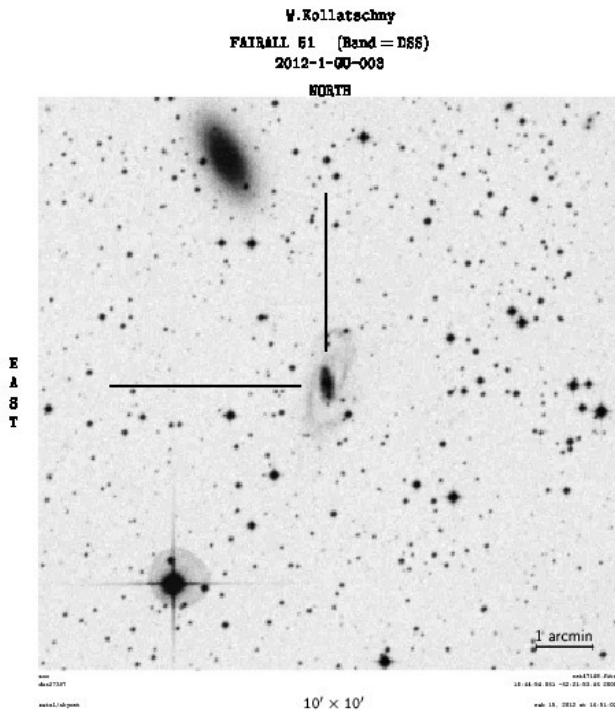
*SALT:- eclipse of WD by M-star
- deviations of eclipse time
due to planets*

Spectral variability of Fairall 51

- Seyfert 1 galaxy

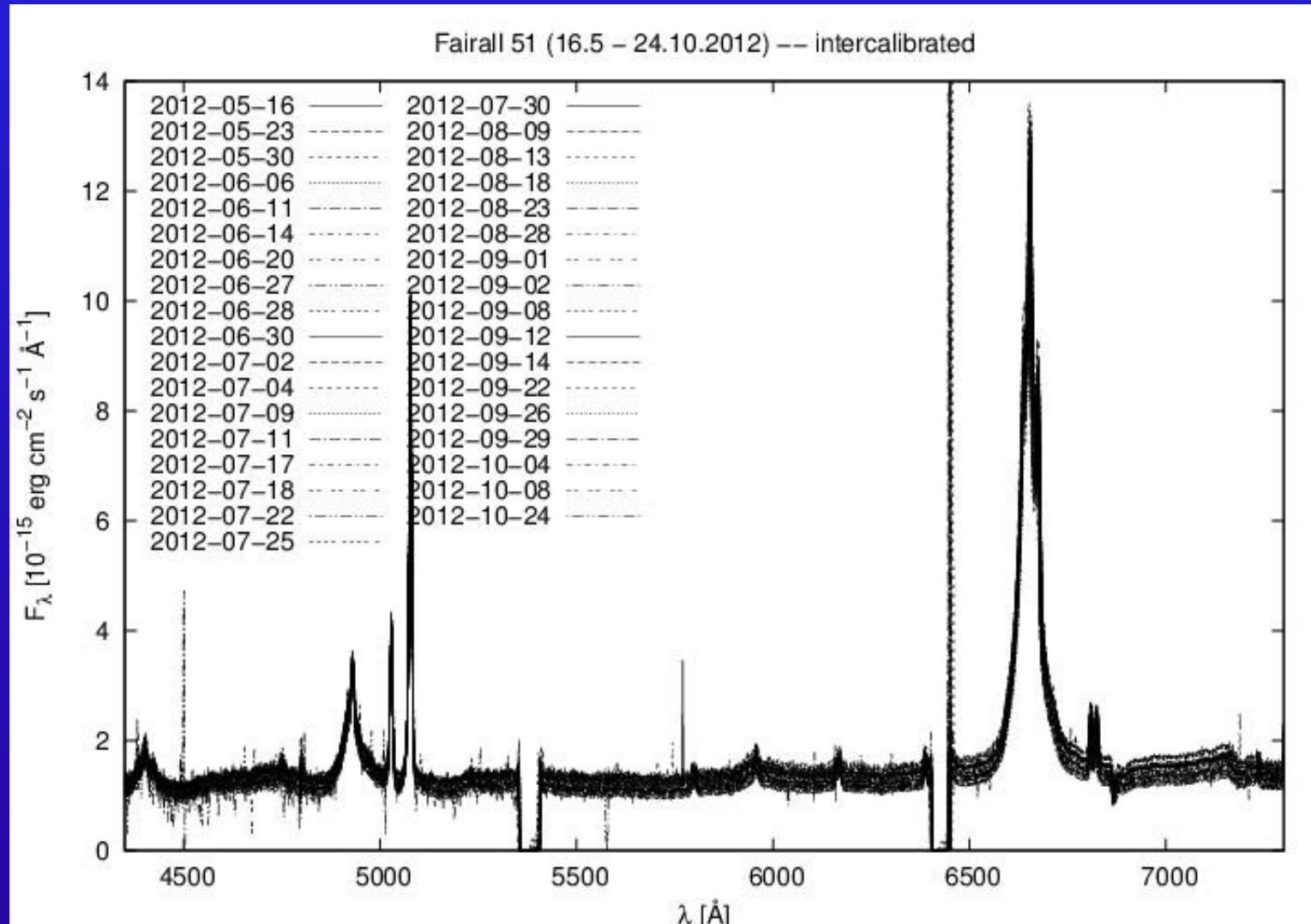
- $m_v \sim 15$

- 35 SALT spectra between May 16 and October 24, 2012



Spectral variability of Fairall 51

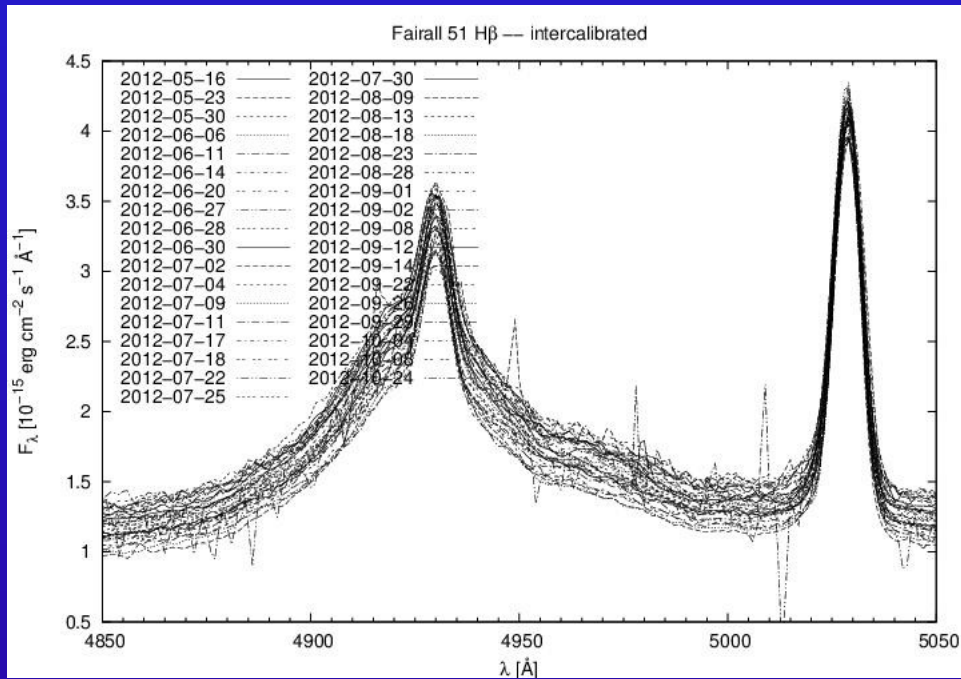
SALT spectra taken between May and October, 2012



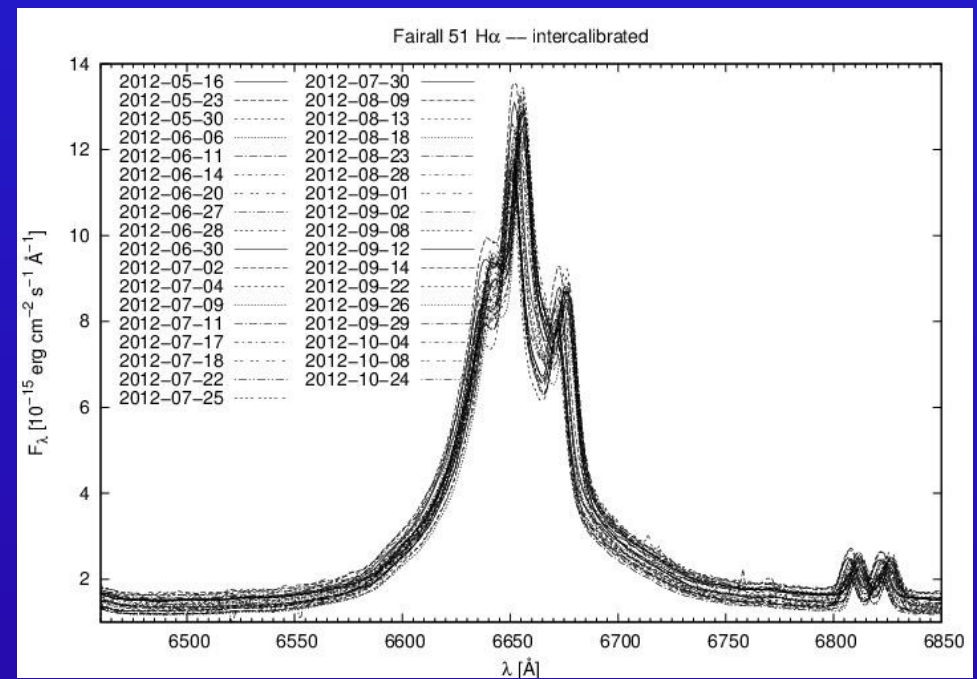
calibrated with respect to the [OIII] lines

Line and cont. intensity variations in Fairall 51

H β region

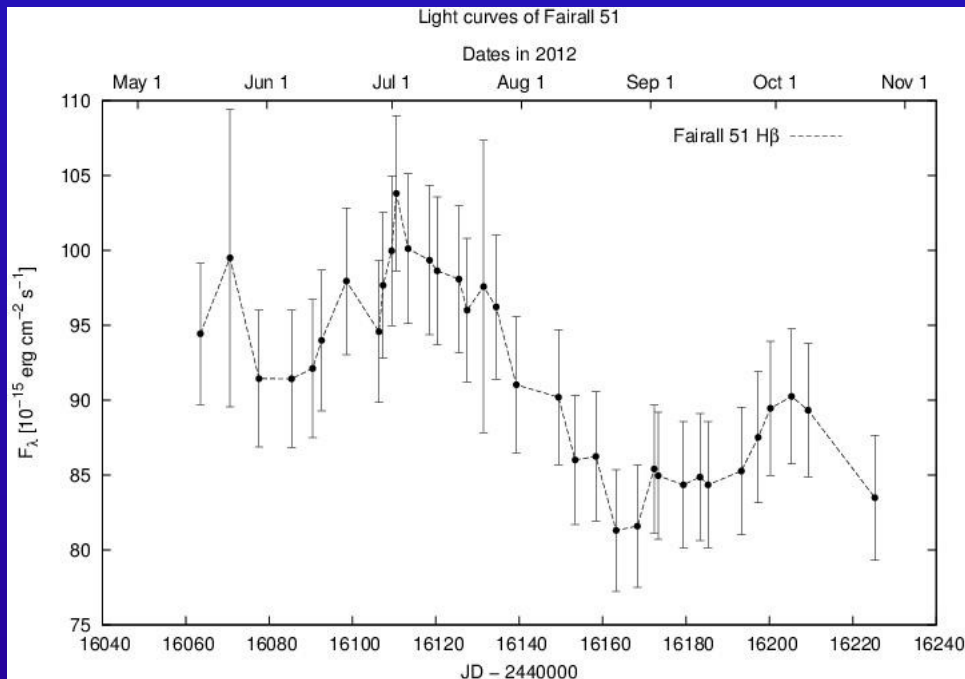
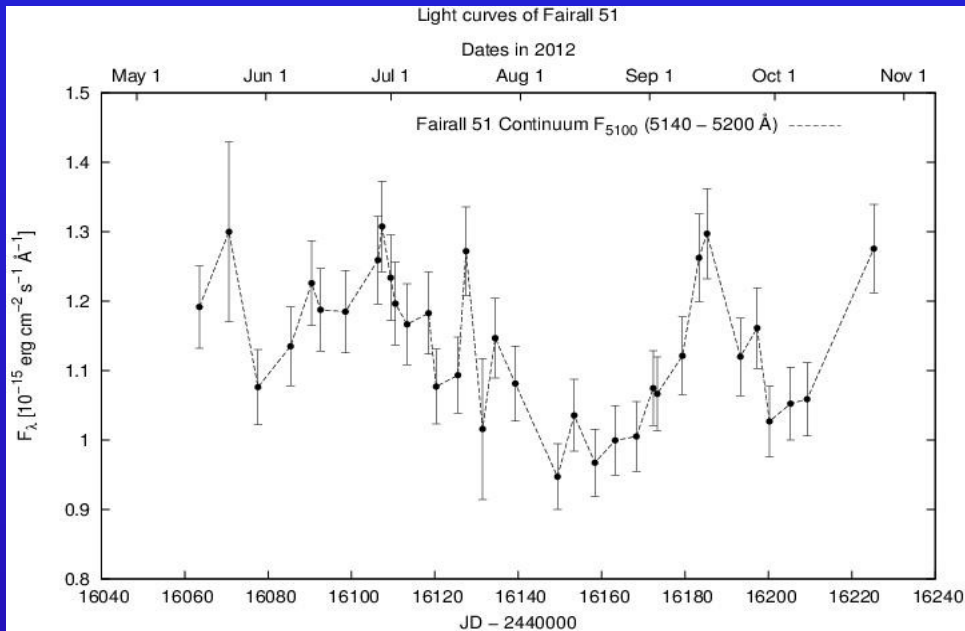


H α region

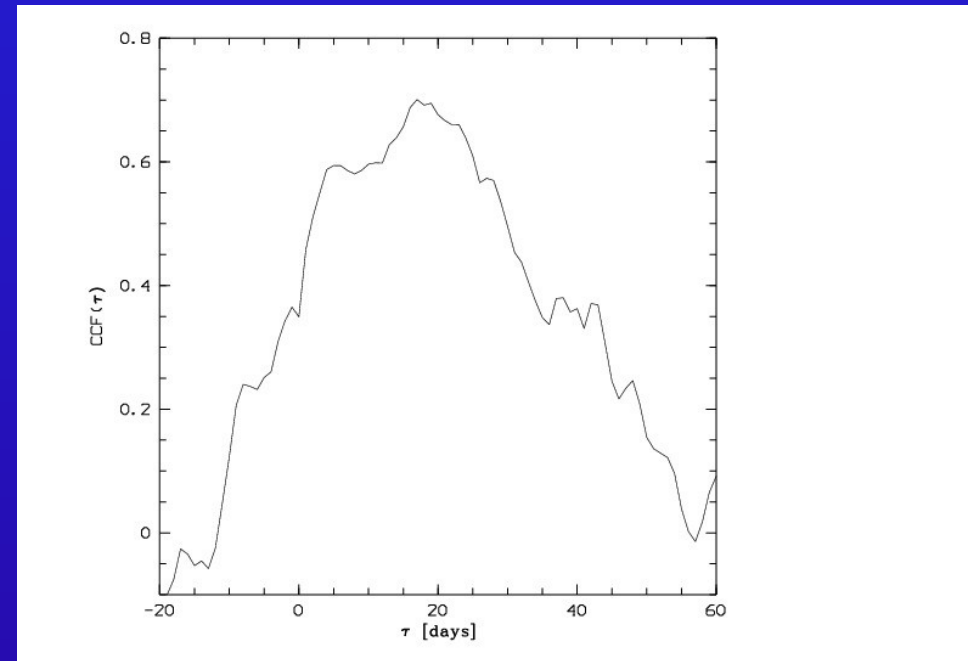


calibrated with respect to the [OIII] lines

H β and continuum light curves in Fairall 51



Cros-correlation function of H β Ic. with respect to the continuum Ic.



mean distance of H β line emitting region: 16 ± 5 light days

2D spectral variability under reduction

Spectral variability in ESO141-G38

ongoing project

SALT observations of the X-ray weakest QSO

Simultaneous optical (SALT), UV (HST), and X-ray (XMM, Norbert Schartel) observations of the X-ray (α opt-X) weakest Quasar in August 2013:

we got the SALT spectrum, data under reduction

