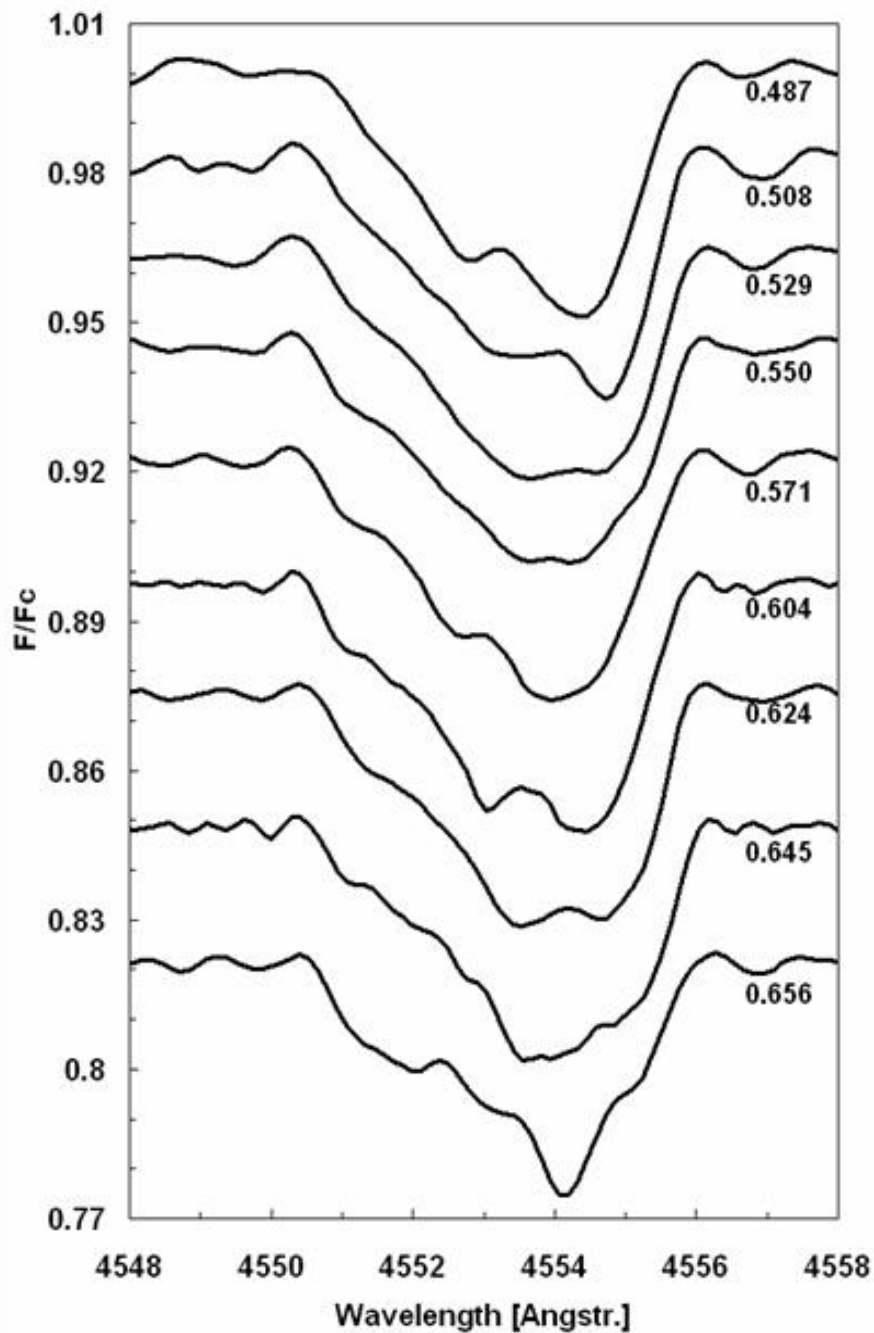


## **Observation of non-radial pulsation and line-profile variabilities in $\delta$ Sco**

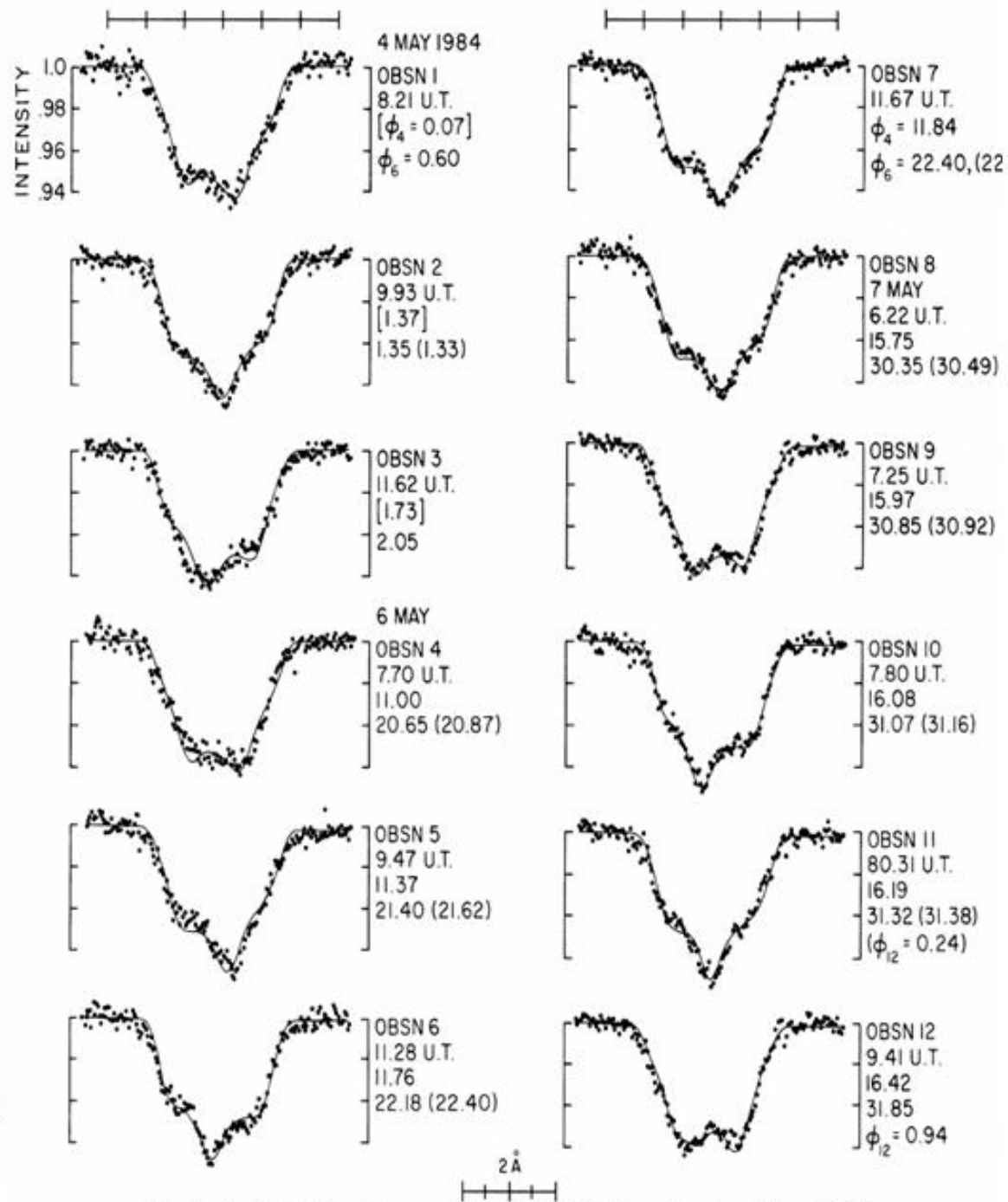
**Time-series spectroscopic observations of the Si III 4552 absorption of  $\delta$  Sco were obtained with the LIHRES III spectrograph (2400 L/mm grating, R=14000) and a 40 cm SC telescope at the observatory of the Vereinigung der Sternfreunde Köln in Germany.**

**18 single spectra were obtained during the night 14/15 April 2013 with 15 min exposure for each one. Each two spectra have been used to get a sum spectrum for getting an optimal signal to noise ratio.**

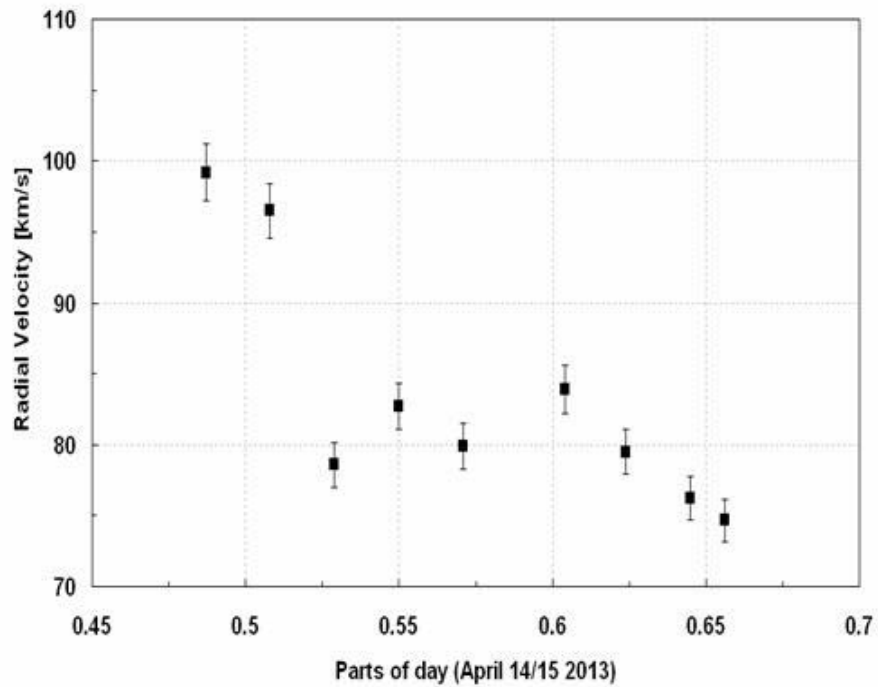
**The spectra have been calibrated with an Argon-Xenon-Neon plasma tube in front of the aperture of the telescope. This way of calibration leads to an accuracy of  $\pm 2$  km/s.**



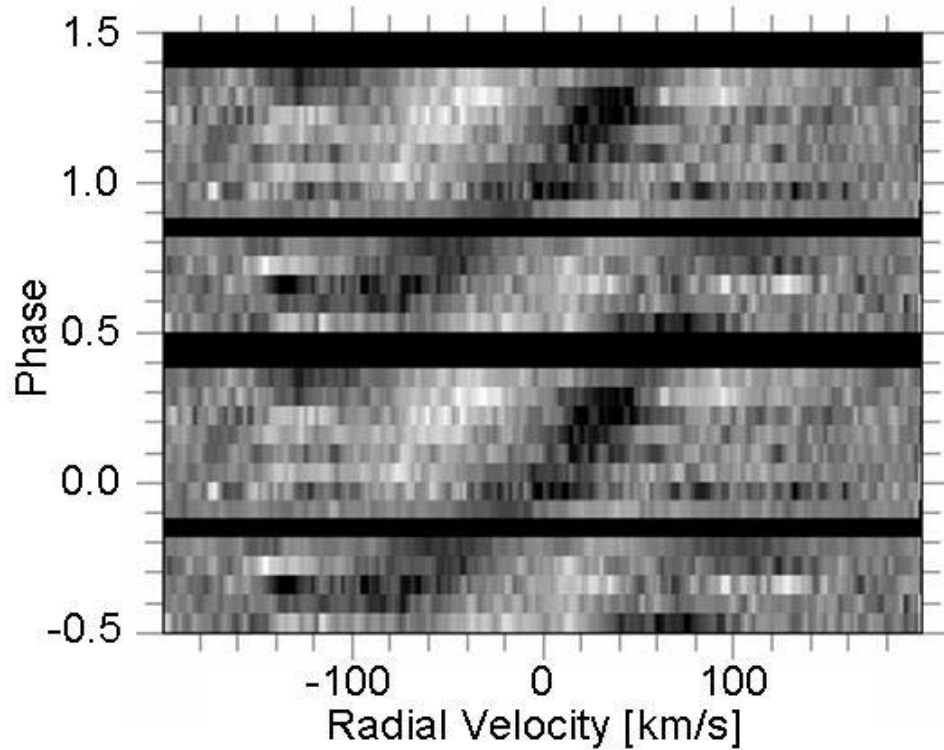
$\lambda 4552$  observations for  $\delta$  Sco 14/15th April 2013  
E. Pollmann, Observatory VdS-Köln, Germany



Modeled  $\lambda 4552$  observations for  $\delta$  Sco during May 1984  
M. Smith, ApJ 304, 728, 1986



**Radial velocity of the Silll 4553 line  
14/15 April 2013  
E. Pollmann, observatory VdS-Köln**



**Pusations residuals vs. mean of the  
Silll 4553 line after periastron  
Th. Rivinius et al.  
ASP Conference series**