

V-252: Dr. Natallia Sudnik , St. Petersburg, from 4 – 25 June 2017.

After our publication of our A&A paper "*Multiple, short-lived "stellar prominences" on O stars: the O6.5I(n)fp star λ Cephei*" (Sudnik and Henrichs, 2016) we have continued this project on the O7.5 giant ξ Persei. We completed the analysis of the more than 400 high-quality spectra, including those obtained by students on the Mercator telescope on La Palma, using the same mathematical description of stellar prominences as before. The lifetime of the proposed magnetic prominences is several hours, similar to λ Cep, which suggests that this is a common phenomenon in O stars. In February, we found the rotation period of 2.04 days in ξ Per, present over 12 years in a region very close to the stellar surface, which predicts that the star has a permanent magnetic field, which is yet to be measured. All previous attempts were taken at unfavorable phases. We have prepared two poster presentations for the meetings in Postdam (12 – 16 June, Stellar Magnetism), and in Brno (28 August – 1 September, Stars with a stable Magnetic field).