

# Magnetic massive stars in star forming regions

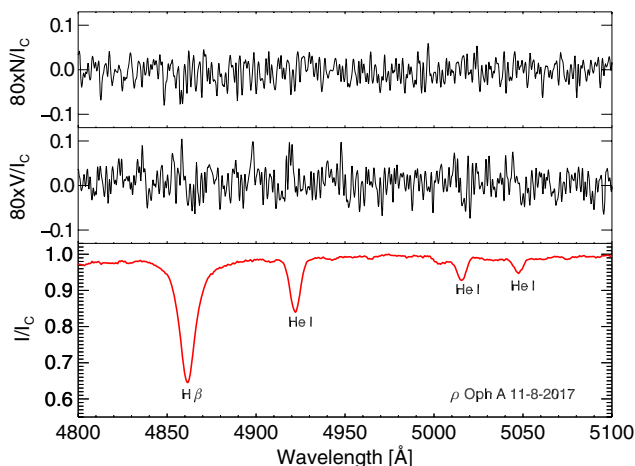
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**Abstract.** One idea for the origin of magnetic fields in massive stars suggests that the magnetic field is the fossil remnant of the Galactic ISM magnetic field, amplified during the collapse of the magnetised gas cloud. A search for the presence of magnetic fields in massive stars located in active sites of star formation led to the detection of rather strong magnetic fields in a few young stars. Future spectropolarimetric observations are urgently needed to obtain insights into the mechanisms that drive the generation of kG magnetic fields during high-mass star formation.



**Figure 1.** Stokes  $I$ , Stokes  $V$ , and diagnostic  $N$  spectra (from bottom to top) of  $\rho$  Oph A in the vicinity of the  $H\beta$  line. For better visibility, Stokes  $V$  and diagnostic  $N$  spectra are magnified by a factor of 80. Our study of the spectral variability indicates a behaviour similar to that observed in typical He-rich magnetic early-type Bp stars (Hubrig *et al.* 2018).

## Reference

Hubrig, S., *et al.*, 2018, *AN*, 339, 72