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We observed magnetic field of the CP star α^2 CVn at the 6-m telescope with the echelle-spectrometer (spectral resolution $R = 50000$, spectral range $3400 - 4100 \text{ \AA}$) using a CCD device and Zeeman analyzer. We found that at all phases of the rotational period the longitudinal magnetic field, B_e , is systematically weaker, by 25%, when measured from lines with wavelength shorter of the Balmer jump (3646 \AA), than when measured from lines with wavelngts $> 3646 \text{ \AA}$.

As in general, the lines with $\lambda > 3646 \text{ \AA}$ form deeper than those with $\lambda < 3646 \text{ \AA}$, we got an additional evidence for increasing of B_e with depth in the atmosphere of α^2 CVn.
