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We developed a new code for magnetic field study using a multiline approach. It was tested by measurements of Zeeman spectra for well known non-magnetic (Procyon and Arcturus) and magnetic ( $\beta$  CrB and 53 Cam) stars. Our code makes it possible to (using VALD database) determine the magnetic field separately from lines of different chemical elements. We measured magnetic field of a few stars at different phases of rotational period.

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