

Poster paper

EMERGENT LINE PROFILES FROM RAPIDLY ROTATING STARS

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We present theoretical line profiles emerging from rapidly rotating stars calculated using our multidimensional radiative transfer code. The radiative transfer equation is solved in axial symmetry and the velocity field in the whole photosphere is taken into account. Comparison with the commonly used convolution method gives significant differences especially for extended photospheres.

Poster paper

THE REDUCTION OF ECLIPSING BINARY STARS SPECTRA OBSERVED AT ROZHEN OBSERVATORY

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Several binary stars of Algol type were observed at Rozhen Observatory with 2m telescope using coude spectrograph. Observations were made from 2001 to 2004. We present the preliminary results of reduction of these spectra.