

FOTEL 4 – User's guide

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FOTEL 4 is a FORTRAN code for separate or simultaneous solving of light curves, radial-velocity curves, visual (interferometric) measurements and eclipse timing of binary and/or triple stellar systems. The underlying physical assumptions, numerical methods and practical use of the code are described in this document.

Keywords: Binary stars - eclipsing, light-curves solution

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KOREL – User’s guide

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The code KOREL for Fourier disentangling (i.e. simultaneous decomposition of component spectra and solution of orbital elements) and ‘line-photometry’ of binary and multiple stars is described together with auxiliary codes PREKOR, KORNOR etc.

Keywords: Binary stars – spectroscopic, spectra disentangling

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Ondřejov Echelle Spectrograph – OES

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This paper describes the OES echelle spectrograph, a new coudé focus instrument of the 2 m telescope at Ondřejov Observatory. The design, optical scheme, and mechanical solutions are presented. A brief review of laboratory tests is given, too.

Keywords: spectrographs: high dispersion – spectrographs: echelle – spectrographs: white pupil solution

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1 Introduction

Since its very beginning, the observational programme of the 2 meter telescope at Ondřejov has been oriented to high dispersion spectroscopy. The primary instrument was a spectrograph in the coudé focus. Originally, the three cameras designed for photographic

plates as light detectors were able to produce spectra with reciprocal dispersion from 34 to 4 Å/mm. When the electronic detectors started to be available, the two cameras with longer focus (700 and 1400 mm) were adapted to carry dewars with CCD's. This solution was not possible for the shortest camera (f=350 mm). Later, a lens objective with focal length 400 mm was designed and built. Thus, the coudé spectrograph in the “electronic era” is able to offer spectra