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Parameter determination of a binary star system

By Fabian Prilasnig

GRIN Verlag Mrz 2008, 2008. Taschenbuch. Book Condition: Neu. 211x146x7 mm. This item is printed on demand - Print on Demand Neuware - Diploma Thesis from the year 2001 in the subject Astronomy, grade: 1,0, Technical University of Graz, 15 entries in the bibliography, language: English, abstract: The focus of this work about binary star systems is on model applications and selections of an algorithm to determine the parameters of individual binaries. It consists of four major parts: a general introduction to the theory of binary stars; introductory material about spectroscopy and photometry; a description of IRAF (Imaging Reduction and Analysis Facility) - this is a software program which allows the reduction and the analysis of gathered data of astronomical objects - and its application on parameter determination of the binary system UV Leonis. Last but not least follows the presentation of the spectroscopical and photometrical results of this binary star system. The spectroscopical and photometrical results confirm that the components of the binary star system UV Leonis are main-sequence stars having the same spectral type as the Sun. From the radial velocity curves we can conclude that both components must be nearly spherical due to the sinusoidal shape of their...



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