

Z. Mikulášek<sup>1</sup>, J. Zverko<sup>2</sup>, J. Žižňovský<sup>2</sup> and J. Janík<sup>1</sup>

<sup>1</sup>*Institute of Theoretical Physics and Astrophysics, Masaryk University, 611 37 Brno, Czech Republic,  
(E-mail: mikulas@ics.muni.cz)*

<sup>2</sup>*Astronomical Institute of the Slovak Academy of Sciences, 059 60 Tatranská Lomnica, Slovakia*

We present a new method of phenomenological modelling of light curves based on ideas of the principal component analysis that enables a realistic description of light variations of a variable object with a minimum of free parameters. The application of the method is demonstrated on the light curve analysis of magnetic CP stars HD 90044 and HD 125248.

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