



ADVANCED ANALYSIS OF THE LIGHT CURVES OF THE SYMBIOTIC SYSTEM AX PERSEI

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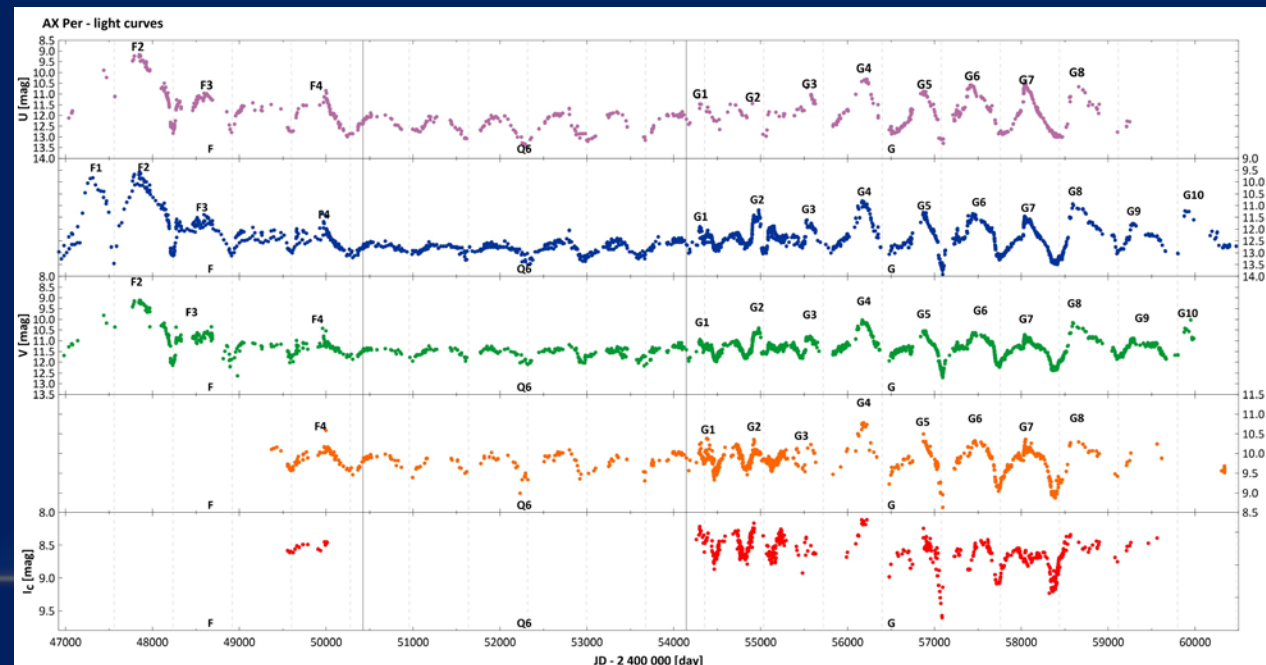
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THE GOALS OF THE RESEARCH

- Measurement and analysis of the amplitudes and FWHMs of the light curves of the eclipses and the outbursts of AX Persei.
- Determination of the new eclipse ephemeris from the O-C diagram.



The light curves of AX Persei in the U , B , V , R_c and I_c filters.

THE MAIN RESULTS

- Data covering 137 years (73 orbital cycles) of photometric history were analysed.
- **Outbursts amplitude and FWHM:** discovered variations relating to the changes in the mass transfer.
- **Eclipses:** variability in the investigated parameters, there were both partial and total eclipses.
- New ephemeris:

$$JD_{ecl} = 2\,447\,557.83 (\pm 3.28) + 679.86 (\pm 0.42) \times E$$

THANK YOU FOR YOUR ATTENTION

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