

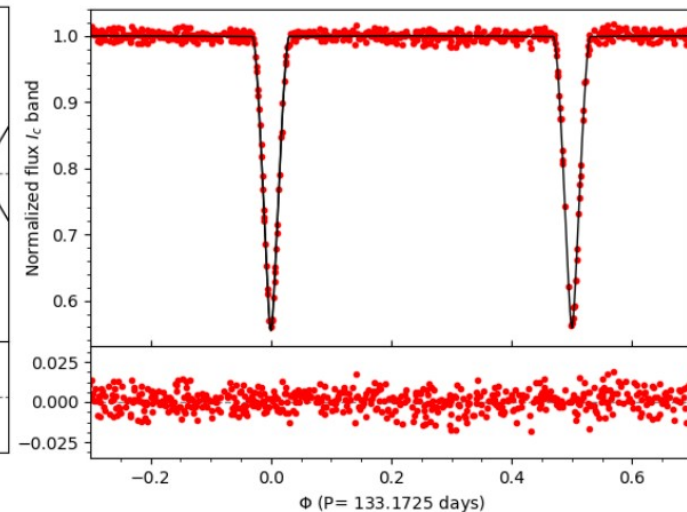
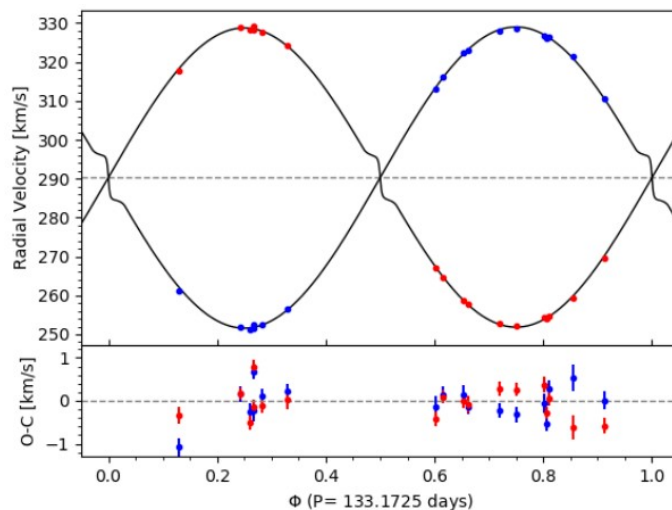
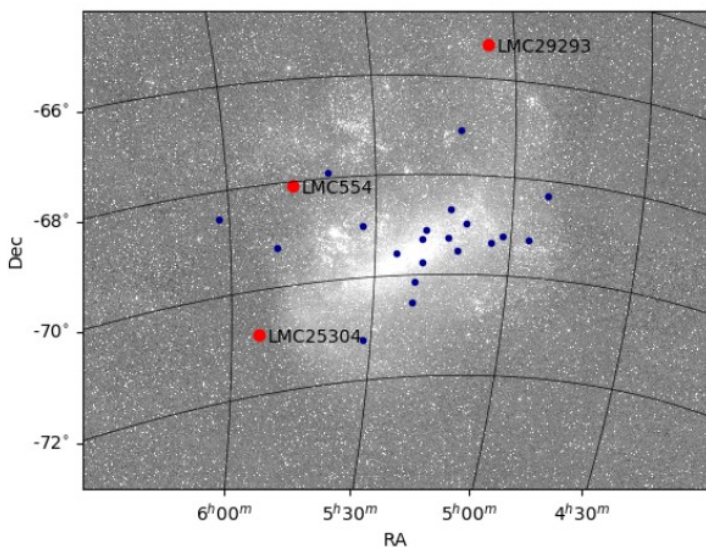
Annual Report 2024

Dariusz Graczyk
CAMK, Toruń, The Araucaria Group



Publications

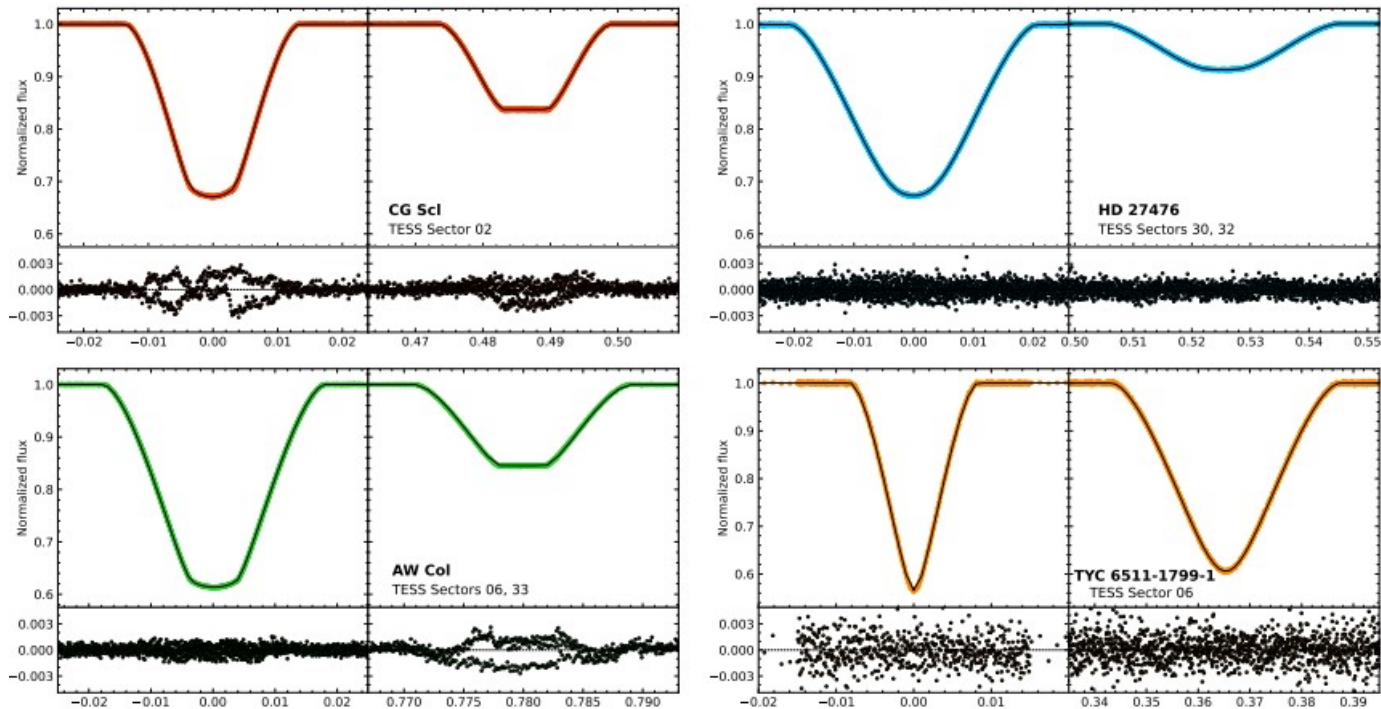
- 5 referred papers published as co-author
 - “Precise physical parameters of three late-type eclipsing binary giant stars in the Large Magellanic Cloud” G. Rojas Garcia, **D. Graczyk**, et al., A&A, 692, 110, 2024



CAMK Annual Meeting

Publications

- One referred paper recently accepted in A&A (December 2024)
 - “Surface brightness-colour relations of dwarf stars from detached eclipsing binaries. Extension of the calibrating sample” **D. Graczyk**, et al., A&A, 2025



23/01/2025

Conferences

- Binaries and Multiple Stars in the Era of Big Sky Surveys, Litomyšl, 9-13 September, 2024
 - Invited talk: “Precise extragalactic distances with eclipsing binary stars”

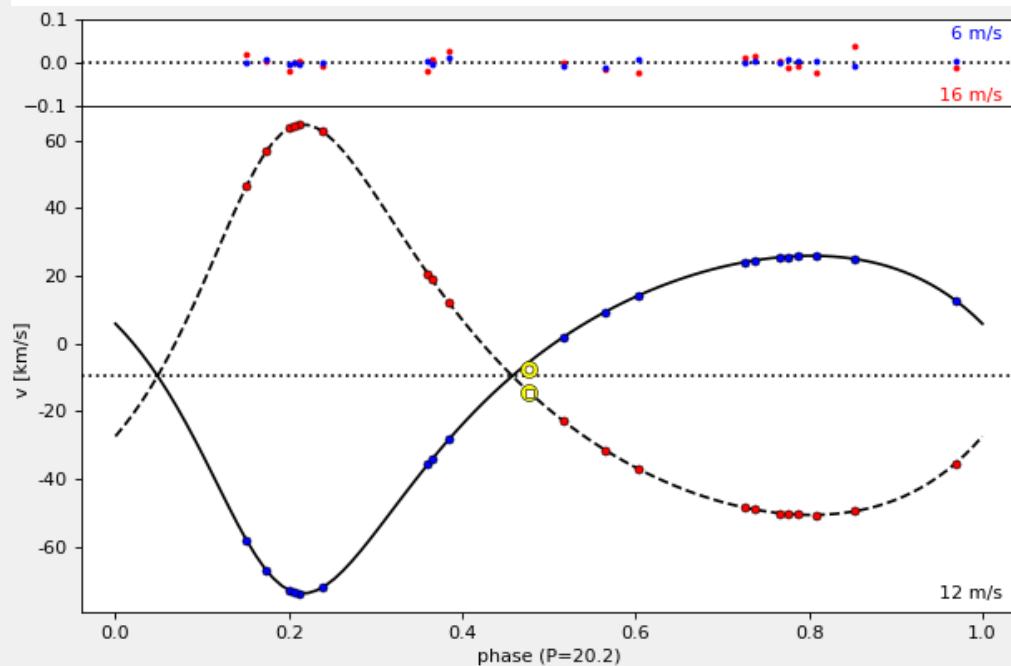
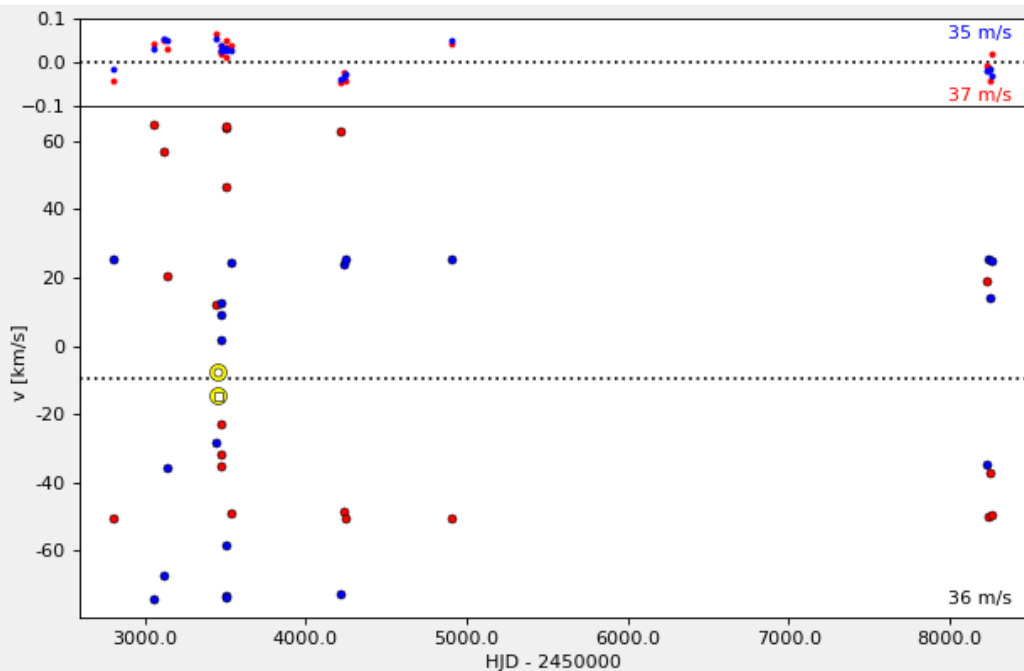


Accepted Observing Proposals as PI

- “Confirmation of planets around solar-type eclipsing binary stars with the radial velocity method”, HARPS, 2 nights, finished, 80%
- “Unlocking the full potential of early-typed eclipsing binaries as precise and accurate distance indicators”, UVES, 56 hours, open

Some results...

- A possible planet around eclipsing binary LL Aqr (two solar type components)



Some results...

- A possible planet around eclipsing binary LL Aqr (two solar type components) with $P_{\text{orb}}=4.1$ yrs and $M_{\text{min}}=5 M_{\text{Jupiter}}$

