

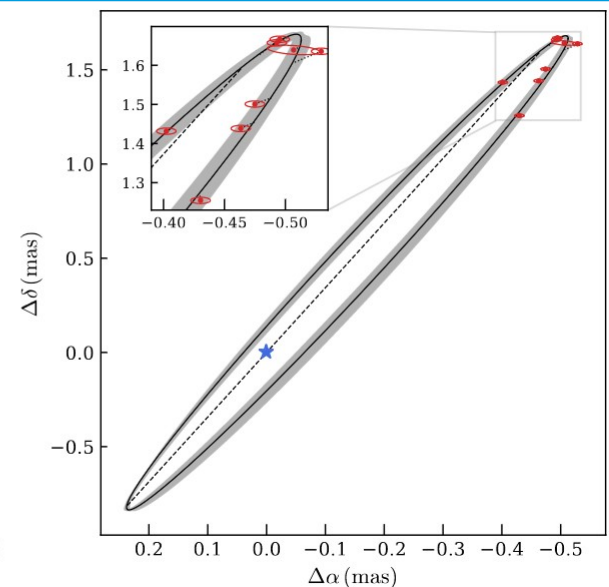
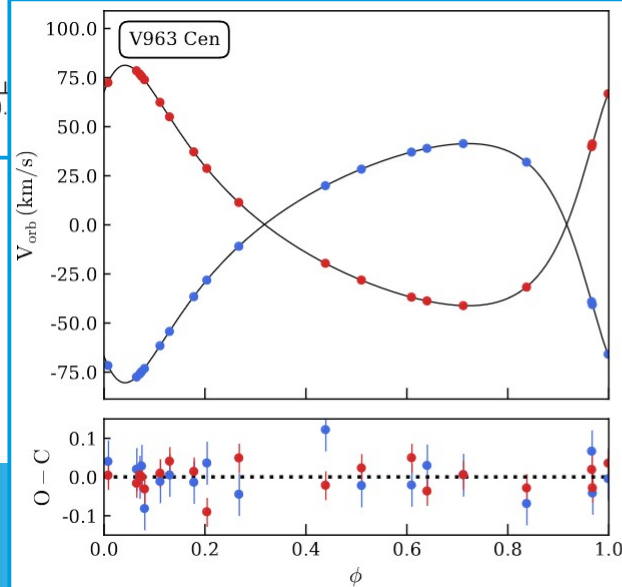
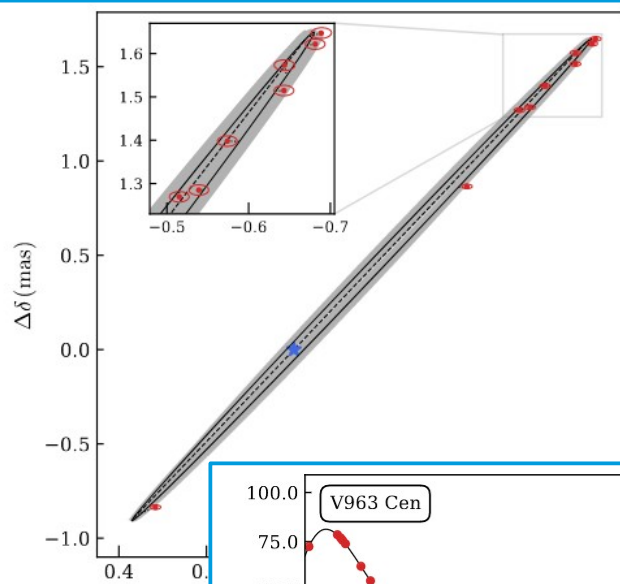
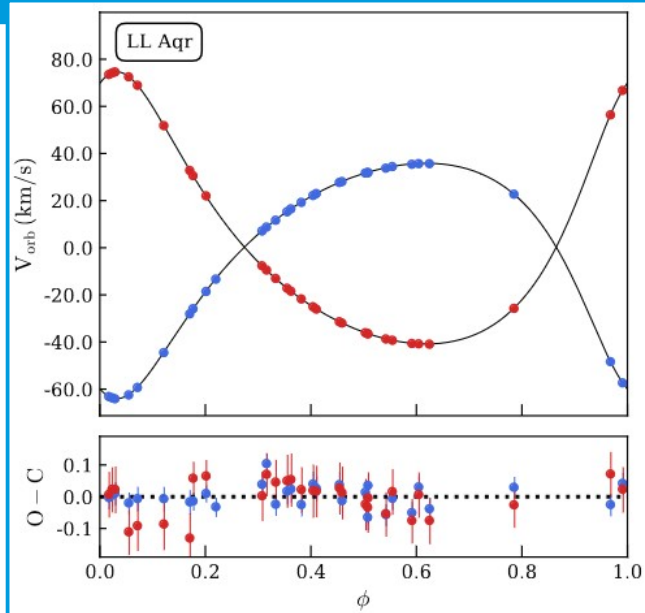
# Annual Report 2023

Dariusz Graczyk, CAMK, PAN, Toruń

- Publications
  - co-author of 4 refereed papers

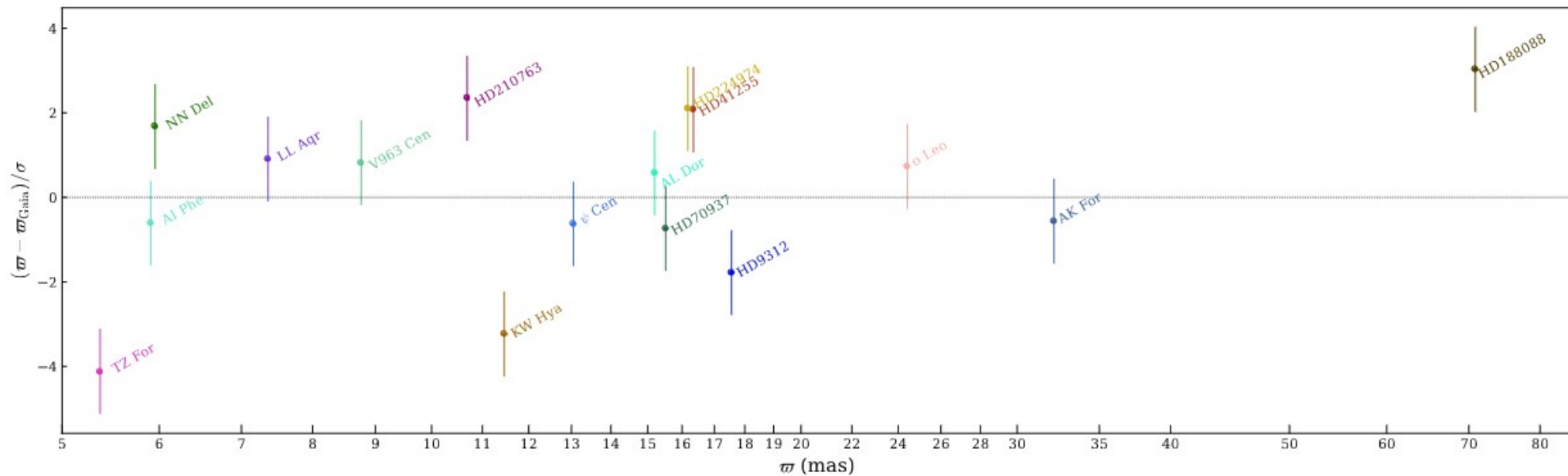
# The Araucaria project: High-precision orbital parallaxes and masses of binary stars

## I. VLT/GRAVITY observations of ten double-lined spectroscopic binaries (Gallenne et al. 2023, A&A, 672, 119)



# The Araucaria project: High-precision orbital parallaxes and masses of binary stars

## I. VLT/GRAVITY observations of ten double-lined spectroscopic binaries (Gallenne et al. 2023, A&A, 672, 119)



**Fig. 8.** Comparison of our orbital parallaxes with the *Gaia* DR3 measurements.

- Successful observing proposals as PI:
  - one for ESO HARPS spectrograph – 2 nights (with G. Hajdu)  
observations of three eclipsing binary stars with suspected planetary companions
- Co-PI:
  - one for Gemini South speckle imager – Zorro (with P. Karczmarek, G. Hajdu and M. Taormina )  
high resolution imaging of fields containing 24 early-type eclipsing binary stars in the LMC

- A supervisor
  - Gonzalo Rojas – late type eclipsing binary stars in the LMC
- A judge
  - XVI international astronomical olympiad in Poland  
(Katowice, August 2023)

