

# The Araucaria Project



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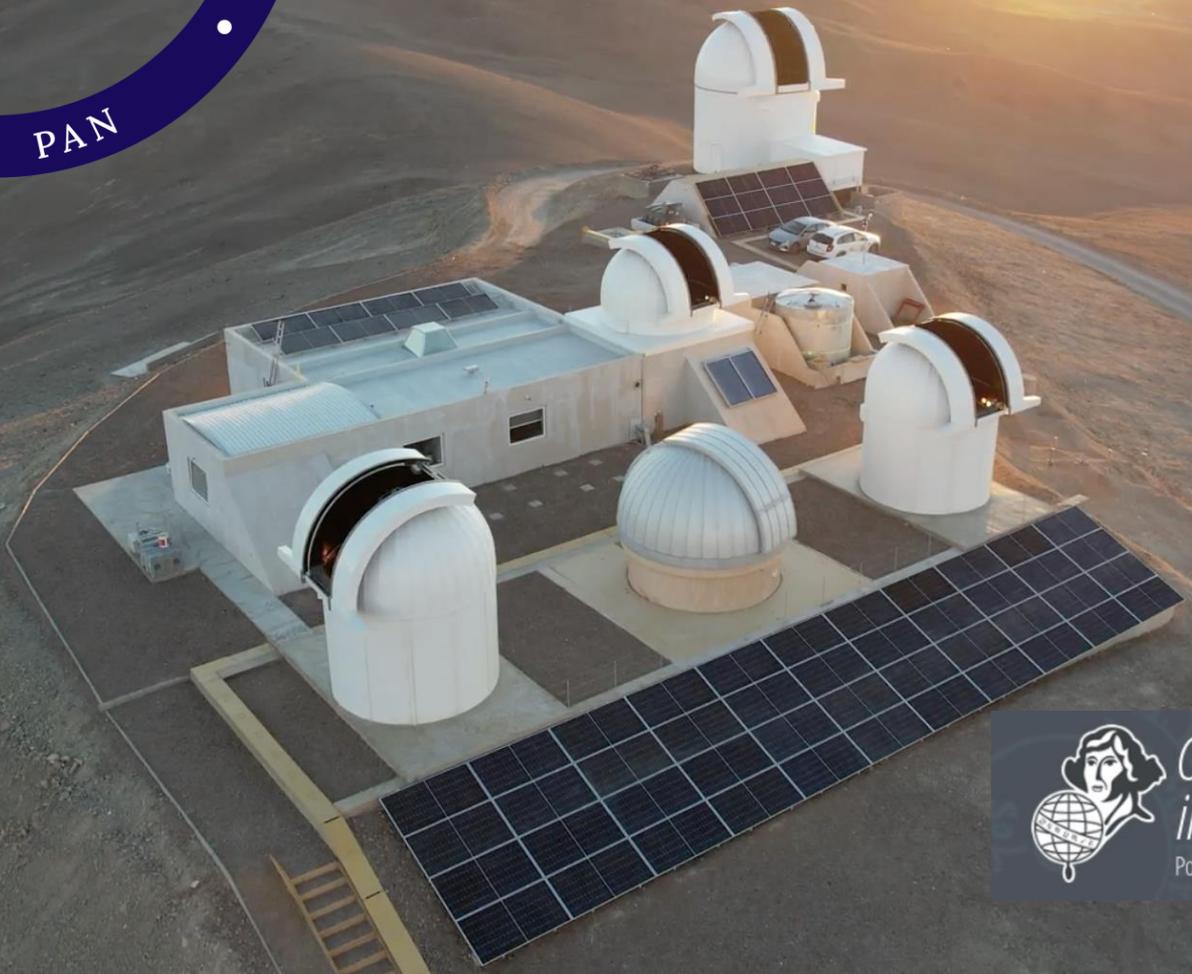
Araucaria

The Araucaria team members (17 countries, 5 continents)



**3 PhD thesis done in 2025 !**





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# PL relations

## Preparing for Gaia DR4

- Narloch et al. 2025 A&A, 698, 46
- Period–luminosity relations for Galactic Type II Cepheids in the Sloan bands

Multiband BVI JHK ugriz PLR for some 500 Galactic pulsating stars (Cepheids, TII Cep, RR Lyrae, ect).

Dedicated survey of nearby 12 galaxies

Reference PLs and metallicity dependence

# BW distances

Zgirski et al. 2026

Distance to the Globular Cluster M 3 from the  
Infrared Surface Brightness Technique applied to  
RR Lyrae stars

Calibration (Zgirski et al. 2024) 7% rms. Limited by the Gaia DR3 parallaxes.

Based on 20 stars we achieved 3% distance at 10kpc. Very promising.

Several GCs will be analysed (RR Lyr T2 Cep)