

THE HISTORY OF C, N, AND O IN THE GALAXY

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- Carbon, Nitrogen and Oxygen
- Life-building elements
- Very abundant
- Indicators of stellar evolution
- History and Spread in the Galaxy not well understood
- Studied in molecular bands in FGK stars
- Heterogeneous data across surveys

- Careful usage of Benchmark stars
- Bringing data to the same scale
- Observing more spectra of stars to cover data gaps in Molėtai AO

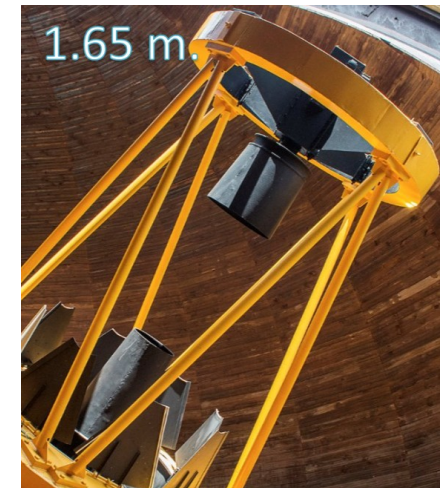
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Smiljanic et al. 2026 in prep.

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Molėtai astronomical observatory
Vilnius University, Lithuania

Apply for observing time <https://mao.tfai.vu.lt>

- 165, 80, 35/51 cm. telescopes
- HR spectroscopy: R~ 68000, 48000, 36000
- Photometry: SOPHIA 4096, 4k sensor



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