

Work visit of an Indian colleague to Belgium

(04/09/2023-10/11/2023)

[Athul Dileep](#) (ARIES, India; PhD position funded by BINA in India; see picture) came to Belgium for two months to work on the chemically peculiar star HD100357 and the pulsating eclipsing binary system V551 Aur. The majority of the time, he stayed at the ROB under the supervision of [Peter De Cat](#). He searched for archival data of HD100357 and prepared a successful observing time proposal to obtain high-resolution spectra with the HERCULES spectrograph attached to the 1.0-m McLellan telescope of the Mount John University Observatory in New Zealand (collaboration with [Peter De Cat](#)), learned new techniques to analyse the photometric data of V551 Aur (collaboration with [Patricia Lampens](#)), learned to apply the technique of spectral disentangling technique (collaboration with [Laurent Mahy](#) and [Thibault Merle](#)) and use the Gaia catalogue query (collaboration with [Thibault Merle](#)). [Athul Dileep](#) stayed for two weeks at KU Leuven where he got training in using the spectroscopic analysis tool GSSP (collaboration with [Andrew Tkachenko](#) and [Sarah Gebruers](#)). He went to ULiège to discuss asteroseismic modelling of pulsating CP stars (collaboration with [Marc-Antoine Dupret](#) and [Gaël Buldgen](#)). [Athul Dileep](#) participated in the one-day BINA meeting on 10/10/2023 where he presented an invited talk entitled *Variability in Chemically peculiar stars and Open clusters*.

