



## 11th meeting of the BRICS Astronomy Working Group

13 to 17 October 2025

Instituto Nacional de Pesquisas Espaciais (INPE)  
São José dos Campos, São Paulo, Brasil

# SEARCH FOR CIRCUMSTELLAR ENVELOPES AMONG MAGNETIC CHEMICALLY PECULIAR YOUNG A-B STARS IN THE ORION OB1 ASSOCIATION

Mikhail Pogodin

First Name:	Mikhail
Last Name:	Pogodin
Institution/Affiliation:	Pulkovo Observatory, St.Petersburg, Russia
Country of Residence:	Russia
Preferred type of presentation	—
Will you attend in person or online?	—
Email	mikhailpogodin@mail.ru

## Abstract

A representative sample of 56 young chemically peculiar A-B stars from the Orion OB1 association was tested. Signatures of gaseous circumstellar envelope were searching using a spectroscopy in the H-alpha line. The spectral observations were carried out with the 1.6m telescope of the LNA observatory (Brazil) in 2022-2024. Additionally, some spectral data were taken out from the ESO archive. Anomalous H-alpha profiles have been found in 7 objects, and two stars in the Orion Nebula demonstrate narrow emission components originated in the background gaseous nebula. A comparative analysis of objects with spectral peculiarities was carried out.