

Cover Letter

Dear Dr. Rybák,

I am writing to apply for the PhD position at the Solar Department of the Astronomical Institute of the Slovak Academy of Sciences. Throughout my academic journey—encompassing a Master's degree in Astrophysics and Cosmology, prior research in plasma physics, and hands-on experience with computational methods—I have consistently focused on exploring complex astrophysical phenomena. The prospect of investigating the role of large-scale magnetic fields in the solar atmosphere and their effect on cosmic ray levels aligns perfectly with my interests and research background.

In my graduate research, I utilized programming languages such as Python and MATLAB to analyze observational data, develop numerical models, and interpret fundamental processes in stellar and planetary contexts. I believe these skills will be valuable to your ongoing project on spectroscopy, spectro-polarimetry, and numerical modeling of solar atmospheric phenomena. The opportunity to deepen my expertise in solar physics while contributing to cutting-edge studies on long-term variations of cosmic rays is both exciting and motivating.

Moreover, I am drawn to the collaborative nature of the research environment you lead, where innovative discussions and teamwork push the boundaries of our understanding. The chance to be part of a dynamic institution like the Slovak Academy of Sciences, known for its commitment to scientific excellence, further motivates me to apply.

Thank you for your time and consideration. I am eager to discuss my application further and would be honored to join the institute's effort to uncover new insights into the Sun's influence on cosmic ray variability.

Sincerely,

Golnar Mirzad