

# Post-doc position in Prague - Astroparticle physics

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The Institute of Physics of the Czech Academy of Sciences (FZU) is a public research institution focusing on basic and applied research in physics. FZU is the largest institute of the Czech Academy of Sciences with more than 1300 employees, including a considerable number of international workers. The ambition of FZU is to push forward the boundaries of knowledge and conducting first-rate research in the fields of elementary particles, condensed systems and solid particles, optics, plasma physics and laser physics.

**The astroparticle physics department is a member of the Pierre Auger Observatory, CTA, and SWGO Collaborations.**

We are looking for a new colleague to join the astroparticle team at the position of:  
**Postdoc - Astroparticle Physics**

This offer will remain open until the position is filled.

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## Project description:

As an active group participating in leading cosmic-ray and gamma-ray experiments, we also have a line of research in general cosmic-ray open topics, with particular emphasis on the phenomenology of the longitudinal and lateral development of extensive air showers. We are primarily interested in developing new observables and analyses that can be employed in the current and next-generation cosmic-ray experiments to estimate cosmic ray composition and evaluate the characteristics of hadronic interactions at energies above the LHC.

## Required qualifications:

- PhD. in physics with a thesis in a related field of research.
- Strong motivation to work on new research topics.
- English language –advanced in reading, writing, communicating.
- Excellent problem-solving skills.
- Good team-working skills.
- Good knowledge of C++ and Python.
- Experience with CORSIKA and CONEX Monte Carlo codes.

## Why should you apply?

- Working in an international, creative, and highly motivated environment
- Working in a multidisciplinary research team
- A stimulating and friendly supervising and mentoring environment
- Unique research facilities
- Training and development possibilities (seminars, workshops, conferences)
- Soft skills training (project management, grant applications, ...)
- Language courses
- Flexible working hours
- Further benefits, among which, Multisport card, meal allowance, cooperate kindergarten,...

## Terms of employment:

The initial employment period is 1 year (further extension is then possible and expected), starting from January 2022. **Participation in the Pierre Auger Observatory data analysis is possible.**

## Application procedure:

Please send a motivation letter, your CV, a list of publications, and two references to [esantos@fzu.cz](mailto:esantos@fzu.cz), [travnick@fzu.cz](mailto:travnick@fzu.cz), [daceva@fzu.cz](mailto:daceva@fzu.cz).

## **Type of post**

PostDoc

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**Session Classification:** Offering a position