

INSTITUTION: National Centre For Nuclear Research (NCBJ)

CITY: Warsaw

POSITION: **Postdoc – Barely Visible: Low Surface Brightness Universe in the LSST era**
(1)

DISCIPLINE: astronomy, physics

POSTED: 19.07.2024

EXPIRES: 10.09.2024

WEBSITE: <https://www.ncbj.gov.pl/en/praca/postdoc-bp4-1>

KEY WORDS: Astronomy, Astrophysics, Galaxies

The National Centre for Nuclear Research opens the competition for the position of

Postdoc

Localization: Pasteura 7, 02-093 Warsaw

The Astrophysics Division of the NCBJ's Department of Fundamental Research is dedicated to research in astrophysics and astronomy, mainly their observational aspects. The Department employs 19 staff members, including eight foreigners, at the rank of Assistant Professor and above. 9 PhD students from the Department of Astrophysics are being trained at the Doctoral School of the NCBJ and IChTJ. The Department of Astrophysics offers an active research environment of the highest international standards.

Link to the Astrophysics Department website: <https://www.ncbj.gov.pl/en/astrophysics-division>

2-year post-doc position in observational astrophysics in the Astrophysics Department of National Centre of Nuclear Research.

The employment is financed by project MAESTRO No 2023/50/A/ST9/00579 “Barely Visible: Low Surface Brightness Universe in the LSST era,” led by Prof. Agnieszka Pollo. (agnieszka.pollo@ncbj.gov.pl).



Description of tasks:

- working in a research team under the supervision of the PI and senior co-Is on tasks related to the implementation of the grant
- analysis of the observational data, interpretation of the results, preparing publications and conference presentations regarding the results obtained in the project and promotion research results
- participation in the scientific life of the Astrophysics Division - participating in meetings, seminars co-organisation of workshop, conferences and other activities
- (co)-supervision and providing support to the PhD and undergraduate students working in the project
- development of new search methods for low surface brightness galaxies and their classification. Tests and application to existing data sets and ultimately to the LSST data.
- development, tests, and application of new methods to study properties of low surface brightness galaxies. Dedicated modeling and development of new modules to study properties of newly found galaxies with CIGALE fitting tool and other SED fitters and analysis of their physical properties.
- active participation in the corresponding LSST science collaborations.

Requirements for the candidate:

- Ph.D. in physics, astrophysics, astroinformatics or equivalent (obtained no earlier than in 2017 and no later than fall 2024),
- documented research experience (publications, conference talks, etc.) in the field of observational astrophysics physics
- fluent English spoken and written

Additional assets:

- documented experience in the analysis of big astronomical data
- documented experience in studies of low surface brightness galaxies
- documented experience in the analysis of galaxy properties, in particular SED fitting, morphological measurements, etc.
- past successful applications for observational time and direct expertise in observational data analysis

We offer:

- participation in large international science collaborations, in particular the LSST
- employment in one of the largest research Institute in Poland
- good learning environment. Support of an experienced team
- external and internal trainings in hard and soft skills as well as participation in conferences
- a chance to make ones' own mark by participation in the creation of a interesting and ambitious projects
- work in Polish and international networks with research institutes and industrial companies

Required documents:

- Curriculum Vitae
- Full publication list
- A research statement
- A scan/ copy of degree diploma
- 2 letters of recommendation - should be submitted in English to:
Dorota.Dobrowolska@ncbj.gov.pl the subject of e-mails should be "adiunkt MAESTRO 1" and the name and surname of the applicant

Contact: Dorota Dobrowolska (dorota.dobrowolska@ncbj.gov.pl)

Applications in electronic form should be submitted in English to: Dorota.Dobrowolska@ncbj.gov.pl the subject of e-mails should be "adiunkt MAESTRO 1" and the name and surname of the applicant

Starting date of the contract: 01|10|2024

Additional comments:

Submitted documents will not be returned. We will contact selected candidates.

As an attachment to your application please sign and enclose the following declarations:

I agree for my personal data included in the application documents to be processed by National Centre for Nuclear Research with its registered office in Otwock, 7 Andrzej Sołtan Street, 05-420 Otwock, for a period of 12 months from their submission, in order to carry out future recruitment processes.

Information in accordance with Article 13 RODO on the processing of personal data:

1. The Personal Data Controller of your personal data is the National Centre for Nuclear Research (hereinafter referred to as Controller or NCBJ) with its registered office in Otwock, 7 Andrzej Sołtan Street, 05-400 Otwock.
2. Your personal data will be processed for recruitment purposes on the basis of applicable law, including the Labour Code. Data not required by law, provided by you in your documents, will be processed on the basis of your consent. Your consent is given by the transfer of this data.
3. The full content of the information clause of Article 13 RODO is available at <https://www.ncbj.gov.pl/en/information-clause-personal-data-processing>





Narodowe Centrum Badań Jądrowych
National Centre for Nuclear Research
ŚWIERK

The National Centre for Nuclear Research is awarded by “HR Excellence in Research”. Recruitment is based on OTM-R system (Open, Transparent and Merit-based recruitment practices in Research Performing Organisations).