



Center for Theoretical Physics

Polish Academy of Sciences

Aleja Lotników 32/46, 02-668 Warsaw

Tel. +48 573 823 493

E-mail: [cft@cft.edu.pl](mailto:cft@cft.edu.pl), NIP: 525-000-92-81, REGON: 000844815



HR EXCELLENCE IN RESEARCH

MK/17/2025

## FORM FOR EMPLOYERS

INSTITUTION: **Center for Theoretical Physics, Polish Academy of Sciences**

CITY: **Warsaw**

POSITION: **post-doctoral position**

DISCIPLINE: **physics**

POSTED: **2025-09-09**

EXPIRES: **2025-11-01**

WEBSITE: <https://www.cft.edu.pl>

KEY WORDS: **gravitational lensing, gravitational waves, general relativity, black holes**

DESCRIPTION (field, expectations, comments):

The Director of the Center for Theoretical Physics PAS (CTP PAS) invites applications **for one postdoctoral fellowship** at the CTP PAS, financed from the project Weave-UNISONO „Lensing of electromagnetic and gravitational waves”, financed by the National Science Center (GA no. UMO-2024/06/Y/ST2/00190). The PI of the project is dr hab. Mikołaj Korzyński. The research will be conducted in collaboration with the group of Dr. Marius Oancea from the University of Vienna.

We are looking for a candidate with a recognized PhD degree (obtained not earlier than in 2018) in astronomy, theoretical physics or a compatible field. Additionally, experience in any of the following three:

- gravitational lensing
- numerical methods in gravitational lensing, raytracing
- gravitational waves

will be an additional advantage.

Tasks of the chosen candidate will be

- Conducting research in the field of gravitational lensing, gravitational waves theory and general relativity
- Co-supervising a PhD student in this field
- Together with the PI, working on the publications and outreach activities

The project aims: investigating



- Optical drift effects close to caustics: investigating the effects of lens, observer and source transverse motion in strong gravitational lensing, for objects near caustics
- Lensing of gravitational waves by strong gravitational fields: computing lensed gravitational waveforms originating from sources in strong-gravity environments
- Computing the effects of propagation of waves in curved spacetimes beyond geometric optics using the Wigner function approach

**Terms of employment:** The position is offered for one year with the possibility of extension, subject to very good performance and the availability of funds, with the total employment period in this position not exceeding 4 years. The competition will be concluded by 30 November 2025. The earliest date of starting work is the beginning of December 2025.

**Salary:** PLN 10470 gross per month (approx. PLN 7500 net per month).

**The application should include:**

1. The scientific CV, including publication list, participation in research projects and conferences (with the clause “I consent to the processing of my personal data necessary for the recruitment process in accordance with the Regulation of the European Parliament and of the Council (EU) 2016/679 of April 27, 2016, on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (GDPR).”)
2. Signed GDPR clause.
3. Motivation letter, with a brief description of the Candidate’s scientific interests and future research plans.
4. A copy of the PhD diploma, or statement from the PhD Advisor on the planned date of defense (the PhD should be awarded before the post-doc contract starting date).
5. Applicants should also arrange to have two letters of reference separately sent to the email address given below.

The documents should be sent electronically until **2025-11-01** to [rekrutacja@cft.edu.pl](mailto:rekrutacja@cft.edu.pl). In the title of the e-mails please add **the reference number: MK/17/2025**

If you have any questions, please send an e-mail to: [korzynski@cft.edu.pl](mailto:korzynski@cft.edu.pl)

Candidates will be evaluated based on the above documents. Selected candidates may be invited for an interview and the chosen candidates will be notified via email. The results of the competition will be shared by e-mails until 30 November 2025 as well.

### Information Clause – Job Recruitment

### Information Obligation under the Article 13 of the RODO \*:

### 1. Data Administrator

The administrator who is a deciding entity on how your personal data will be used is the Center for Theoretical Physics PAN represented by the Director with the seat in Warsaw Al. Lotników 32/46. You can contact the Administrator by using one of the contact forms available on the website : <http://www.cft.edu.pl/>

## 2. Data Protection Inspector

The Director of the Center for Theoretical Physics of the Polish Academy of Sciences has appointed the Data Protection Inspector (Inspektor Ochrony Danych - IOD) with whom you can contact in all matters relating to your personal data. You can contact the Inspector by sending an email to: [iod@cft.edu.pl](mailto:iod@cft.edu.pl)

### 3. The Purposes of Processing and the Legal Basis for Processing

Your personal data will be processed for the purpose of running the current recruitment. The basis for the processing of personal data are the provisions of the Labor Code Act of June 26, 1974 (uniform text: Dz. U. of 2018, item 917) and based on your consent for data processing.

#### 4. The Period of Storage of Personal Data

**Your personal data will be kept for the duration of the present recruitment.**

## 5. Data Recipients\*\*

The recipients of your personal data will be only entities authorized to obtain personal data on the basis of the law. Access to your data is provided only to employees authorized by the administrator and associates who must have access to the data to perform their duties.

## 6. Your Processing Rights

You have the right to access your data and the right to correct it or limit processing, as well as the right to appeal against the processing.

## 6. The Obligation to Provide Data and the Consequences of not Providing Data

Providing your personal data specified in the Labor Code is obligatory, and for the remaining extent voluntary.

7. **The right to make a complaint to the President of the Office for the Protection of Personal Data**

When you feel that the processing of personal data violates the provisions of the general regulation on the protection of personal data, you have the right to make a complaint to the President of the Office for the Protection of Personal Data.

## Consent to Data Processing

**I consent to the processing of my personal data by the Center for Theoretical Physics PAN for the needs of:**

☐ Present recruitment.

I provide the data voluntarily and I declare that they are truthful. I got acquainted with the contents of the above information, including information about the purpose and methods of processing personal data and the right to access my data and the right to correct them.

date, signature of the candidate

\* Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46 / EC (general regulation on data pr