



Center for Theoretical Physics

Polish Academy of Sciences

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OPENING FOR A POST-DOCTORAL POSITION IN QUANTUM INFORMATION IN THE CENTER FOR THEORETICAL PHYSICS PAS

We invite applications for a **postdoctoral fellowship** at the Center for Theoretical Physics of the Polish Academy of Sciences, financed from the **SONATA BIS project entitled "Characterization and certification of quantum resources"** (2019/34/E/ST2/00369). The project leader is **dr hab. Remigiusz Augusiak** (website: <http://raugusiak.weebly.com/>).

Project description: The broad subject of the project is widely-understood verification and certification of quantum resources. There are two main aims. The first one is to characterize quantum resources such as quantum entanglement or non-locality and propose efficient methods of their detection. The second aim is to design certification methods for quantum states, quantum operations etc. in various scenarios typically considered within the field of quantum information such as for instance the device-independent scenario. The research has a fundamental character.

Requirements:

- ✓ A recognized PhD in theoretical physics, mathematics, or computer science,
- ✓ Solid experience in quantum information,
- ✓ Good knowledge of mathematical methods in physics,
- ✓ Good knowledge of convex optimization methods such as SDP or linear programming will also be appreciated.

The position is for 1 year and 9 months and the monthly revenue is approx. 8000 zł net (approx. 1750 euro).

Required documents:

1. The scientific CV, including publication list, participation in research projects and conferences (with the clause "*I agree to the processing of my personal data contained in the application documents*").
2. Motivation letter, with a brief description of the Candidate's scientific interests and future research plans.
3. 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).
4. Applicants should also arrange to have two letters of reference (from senior researchers) separately sent to the email address given below.

The documents should be sent electronically to rekrutacja@cft.edu.pl, by **March 1, 2024** with obligatory consent to process the personal data (see below). In the e-mail's title please add the reference number: **RA/01/2024**.

All questions regarding the position should be directed to augusiak@cft.edu.pl.

Selected Applicants will be invited for an interview which will be held either at the institute or via online communicators. The competition will be settled in February 2024, however, the exact date depends on the interviews, availability of the candidates etc. The selected candidates will be informed by e-mail.

The preferred start date of employment is **March/April 2024**, although it can be negotiated.

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

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.

7. 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.

8. 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.

* 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 protection)

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