



Centrum Fizyki Teoretycznej Polskiej Akademii Nauk

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Assistant position at Center for Theoretical Physics PAS

The Director of the Center for Theoretical Physics PAS invites applications for a **junior research assistant (asystent)** within the research project “*Nonclassical correlations in composite quantum systems*”, financed from the sources of CPT PAS. The leader of the project is Dr. Remigiusz Augusiak.

The research project. Dr Augusiak’s scientific interests focus on nonclassical correlations in composite quantum systems such as quantum entanglement or Bell nonlocality. In this research project we will be concerned with the characterization of Bell nonlocality in multipartite quantum systems, that is, quantum systems consisting of many particles. In particular, we will seek novel Bell inequalities allowing one to detect nonlocality in such systems, putting an emphasis on their experimental applicability, and we will design self-testing protocols for multipartite quantum states that are robust to experimental imperfections.

Applicants. At the time of application the candidates should either have a master degree in physics, mathematics or related field, or will obtain it before signing the contract. Good knowledge of quantum theory will be required. Moreover, a good background in mathematical methods of physics and programming skills will be an advantage, but are not mandatory.

Required documents. The applicants should submit the following documents:

- scientific CV, including the major scientific achievements, list of publications, participation in research projects and conferences. The document should contain the statement: “*I hereby give consent to the processing of my personal data for the needs of the recruitment process (in accordance with the Law dated 29.08.97 on the protection of personal data (Journal of Laws, No. 101, item 926))*”,
- transcript of records from undergraduate studies,
- personal questionnaire form from the CTP PAS webpage,

- certified copy of the MSc diploma (or the letter from the supervisor about the prospects for completion of the thesis before the beginning of the employment),

via email directly to Remigiusz Augusiak (augusiak@cft.edu.pl). Additionally each applicant should arrange two letters of recommendation to be sent to the same email address. For more information please contact Dr. Remigiusz Augusiak (augusiak@cft.edu.pl).

The deadline for applications is **February 23, 2018**.

The candidate will be selected until **February 28, 2018** and will be informed about the outcome of competition via mail. The successful candidate will be offered a full-time position for **one year** with the possibility of extending for up to **four years** with the aim of completing the research that should form a doctoral thesis.

Dyrektor
Centrum Fizyki Teoretycznej PAN

dr hab. Lech Mankiewicz