



PostDoc

We are seeking candidates for the postdoctoral researcher position in the project of the National Centre of Science, Poland entitled „Nondemolition quantum-state tomography and spin-interaction detection” realized at the Institute of Physics of the Jagiellonian University in Kraków, Poland

We offer:

- Cutting-edge research in exciting field of quantum-state engineering and tomography
- Exciting scientific/theoretical challenges
- Access to the world-class experimental apparatus, enabling research using hot atomic vapor
- Work in dynamic, creative international group of experts in various fields
- Broad international collaboration
- Three-year full-time employment: ~8000 PLN/month

Responsibilities:

- Leading theoretical investigations, including: studies of fundamental limitations of the collective density-matrix approach developing protocols for a quantum-state tomography
- Performing simulations of many-body quantum systems
- Close collaboration with other members of the group on planning experiments and data processing

Requirements:

- Good track record confirmed by a solid publication record
- Experience in atomic, molecular or optical physics research
- Ability to collaborate with experimentalists
- Creativity, independence, self-discipline

Document required for application:

- CV including the publication list
- Motivation letter
- Two reference letters of faculties/senior scientists

Documents submit to Szymon Pustelny (pustelny@uj.edu.pl)

Application deadline: 15 August 2020

More information on S. Pustelny group research available at www.zf.if.uj.edu.pl and www.facebook.com/ExcitingAtomees/ or after contacting group leader (pustelny@uj.edu.pl)