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

Access to the world-class experimental apparatus, enabling research using hot atomic vapor

Work in dynamic, creative, interdisciplinary international group of researchers

Broad international collaboration

Two-year full-time employment: ~8000 PLN/month and all benefits

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 in international group

Creativity, indepandance, 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: 31 July 2021 Employment starts 1 October 2021

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