

Postdoctoral position in Diagnostics of Quantum Non-Gaussian States for Applications

Sun, 2020-12-27 16:55 - [Radim Filip](#) [1] **At:** Palacky University Olomouc, Czech Republic
Deadline: 31 January, 2021

Location

Palacky University Olomouc 77900 Czech Republic

Postdoctoral position in Diagnostics of Quantum Non-Gaussian States for Applications

Faculty of Science, Palacky University in Olomouc is looking for a suitable candidate for a new post-doc position.

Place of work: Department of Optics (information about Team is at <http://muj.optol.cz/filip/> [2])
Work load: 1,0 (full-time)

Start of job: February 1, 2021 - May 1, 2021

Duration of the contract: 12-24 months (extension possible up to 5 years)

Application deadline: January 31, 2021

Employer web page: [Faculty of Science, Palacky University Olomouc](#) [3]

Job description:

The postdoc will theoretically analyze quantum non-Gaussian states necessary for quantum technology applications, derive measurable criteria for their evaluation and propose new experiments to test them in laboratories. The target is to identify sufficiently robust quantum non-Gaussian features for specific applications and suggest their preparation and verification. The new [EXPRO](#) [4] project of Czech Science Foundation will support this activity for five years. The postdoc may collaborate with our trapped-ion laboratory (Dr. Lukas Slodicka). Prof. Dr. Radim Filip will lead the project work and will be a mentor for this position.

Requirements:

Ph.D. in Quantum Physics;
Specialization and track-record in quantum optics, quantum information, light-matter interaction, cold trapped ions; atomic physics
Ability to communicate and write in English.

Offer:

Modern working environment with state-of-the-art equipment;
Gross monthly salary 45,000 - 60,000 CZK depending on research experience, including health and social insurance + potential bonuses based on performance;
Catering allowance, 28 days of holiday and additional benefits.
Please send your application by e-mail to [filip\[at\]optics\[dot\]upol\[dot\]cz](mailto:filip@optics.upol.cz):

Structured CV;
List of publications;
Motivation letter;

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Published on QUROPE (<http://qurope.eu>)

Scan of diplomas;

References for possible recommendation letters;

Under exceptional circumstances, the enunciator reserves the right not to fill a certain position or cancel the tender completely without stating a reason.

Deadline for submitting the application is January 31, 2021.

- [Postdoc](#) [5]

Source URL:

<http://qurope.eu/db/jobs/postdoctoral-position-diagnostics-quantum-non-gaussian-states-applications>

Links:

[1] <http://qurope.eu/users/radim-filip>

[2] <http://muj.optol.cz/filip/>

[3] <https://www.prf.upol.cz/en/>

[4] <https://gacr.cz/en/types-of-grant-projects/>

[5] <http://qurope.eu/db/jobs/type/postdoc>