

Job ID: IQOQIVIE107PD222

The Institute for Quantum Optics and Quantum Information Vienna ([IQOQI-Vienna](#)) of the Austrian Academy of Sciences ([ÖAW](#)), Austria's leading non-university research and science institution, is offering a

## POSTDOC POSITION (F\*M)

(full time, 40h per week)

in the Quantum Information and Foundations of Physics research group led by Dr. Markus Müller.

The Müller group's research focuses on foundational problems in theoretical physics from an information-theoretic perspective, with quantum information theory as its main tool. The group addresses a variety of questions with the rigorous methods of mathematical physics. For more information on the research activities of the group, see [Müller Group](#).

Now the IQOQI Vienna is offering a **Postdoc position** to a highly motivated and well-qualified researcher to start on or after September 01<sup>st</sup>, 2022. This position is for 20 months, with the possibility of an extension. This theoretical research will be conducted in the context of an FWF project, "*Black-box quantum information under spacetime symmetries*", which explores the semi-device-independent approach to quantum information theory in the context of spatiotemporal symmetries, like rotations or time translations. The project goals are to obtain foundational insights into the relation between quantum theory and spacetime, and to propose new protocols or experiments that exploit those symmetries.

### Your profile:

- Completed studies (PhD) in Physics or a related discipline
- Strong background in quantum theory and mathematics – in particular, the ability to work independently and familiarity with formulating and proving mathematical theorems are essential
- Ideally, a strong background in generalized probabilistic theories and group representation theory
- Experience in relevant and excellent publication activity
- Ability to work well in a team
- Excellent English language and communication skills

Please send your application including a detailed curriculum vitae including list of publications, a short research statement and a PhD certificate and also the electronic (email) contact details of at least two potential referees via e-mail to [applications-iqoqi@oeaw.ac.at](mailto:applications-iqoqi@oeaw.ac.at) (mentioning Job ID:IQOQIVIE107PD222) **no later than August 12<sup>th</sup>, 2022**. We offer an annual gross salary of € 56.861,00 before taxes based on the salary scheme of the Austrian Science Fund ([FWF](#)).

*The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.*