



LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

FAKULTÄT FÜR PHYSIK



The Ludwig-Maximilians-Universität Munich is one of the largest and most renowned universities in Germany embracing a wide diversity of fields. The faculty of physics invites applications for (to be filled as soon as possible)

## ***Post-doc positions (m/w/d) in Quantum Matter***

(full time: 40.1 hours per week)

The projects are situated in the framework of the excellence cluster Munich Center for Quantum Science and Technology and the ERC-Grant QSIMCORR whose goal is to improve on the simulation of strongly correlated systems and which employs techniques from many-body theory and artificial intelligence. The successful candidates will work in a dynamic team of motivated scientists and have access to a state-of-the-art IT infrastructure.

For more information, see [https://www.theorie.physik.uni-muenchen.de/lsschollwoeck/pollet\\_group/index.html](https://www.theorie.physik.uni-muenchen.de/lsschollwoeck/pollet_group/index.html)

### **Project description**

Research topics include

- Studies of spin liquids
- Diagrammatic Monte Carlo simulations
- Selfenergy Functional Theory for topological, bosonic systems
- Machine Learning Techniques for strongly correlated many-body systems.

### **Profile**

- A Master degree in Physics, mathematics, or informatics
- A PhD degree in Physics (quantum matter/computational physics) or equivalent
- At least 3 years of experience with numerical methods and programming languages (C++, Python)
- A reliable, dedicated, structured and independent work ethic
- Excellent communication skills
- Good knowledge of English in writing and speaking

### **Our offer**

We offer an interesting and responsible post-doc position with excellent possibilities for further personal and scientific development. The institute at the Arnold Sommerfeld Center is situated in the city center of Munich and can easily be reached by public transport. Your salary follows the TV-L remuneration scheme.

The position is at first limited to two years. Part time work is in principle possible. Candidates with a handicap and equal qualifications will be given preference. Applications by women are encouraged.

Send an e-mail with a single PDF containing CV, publication list, research statement and the contact addresses of 2 references no later than **February 28, 2021** to Prof. Dr. Lode Pollet (Lode.Pollet@lmu.de)

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