



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

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LEHRSTUHL FÜR THEORETISCHE NANOPHYSIK



At the Chair for Theoretical Nanophysics at the Arnold-Sommerfeld-Center for Theoretical Physics, LMU Munich, we seek outstanding applications for multiple

PhD and post-doc positions In Theoretical Condensed Matter Physics

Begin: not before 01.03.2018

Deadline for applications: 31.1.2018. The search continues until all positions are filled

Salary based on TV-L E13/75% for PhD and E13/100% for post-doc

Duration of Employment: post-doc: 2 years; PhD: up to 4 years; can in exceptional cases be extended

Ref: CoG_QSIMCORR_LMU – only complete applications indicating this reference will be considered

Project description

In the framework of the Horizon2020 ERC Consolidator Grant “QSIMCORR” (1/3/2018-28/2/2023) we seek exceptional individuals for the following topics:

- Harper-Hofstadter models; interplay of interactions with non-trivial band structures
- Selfenergy functional theories/ dynamical mean-field theory for bosons
- Disordered systems and many-body localization
- Out-of-equilibrium dynamics of impurity-like systems
- Determinantal methods for diagrammatic Monte Carlo simulations
- The electron gas problem in the warm dense regime
- Rydberg atoms
- Machine learning for strongly correlated systems
- Quantum Computing

In exceptional cases we also welcome motivated individual research proposals.

Required Qualifications

A Master degree in Physics or equivalent is required for the PhD positions; a PhD degree in Physics or equivalent is required for the post-doc positions.

Candidates with disabilities and equal qualifications will be given preference. LMU welcomes applications from female applicants. The Center is located in a central part of downtown Munich, a city with world class quality of life, and can conveniently be reached by public transportation.

We offer interesting and challenging work with excellent career and qualification opportunities.

Prospective candidates should email a single pdf containing a CV, publication record, and research statement, as well as arrange for at least two letters of reference to:

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