

POSTDOCTORAL RESEARCH POSITION
in Condensed Matter Theory
at the Institute for Theoretical Physics
Frankfurt, June 2017



Applications are invited for a two-year postdoctoral position (with possibility of extension) in Microscopic Modelling of Correlated Materials at the Institute of Theoretical Physics of the Goethe University Frankfurt in the research group of Prof. Roser Valentí. For more information about the group, please visit <http://itp.uni-frankfurt.de/~valenti/>

The candidate should have a PhD degree in theoretical condensed matter physics with an excellent academic background and very good computational skills. Experience in density functional theory and in the treatment of strongly correlated electron systems with many-body methods such as dynamical mean field theory, perturbation expansions or quantum Monte Carlo methods is expected.

The research will be in the fields of:

- **unconventional superconductors (copper oxides, Fe-based superconductors, organic superconductors)**
- **frustrated magnetism / spin-orbit-driven magnetism**
- **correlated topological systems**
- **DFT+DMFT (Dynamical Mean Field Theory)**

The appointment will start at the earliest after a suitable candidate has been chosen. The selection process will take place as soon as possible until the position is filled.

Interested applicants should submit a curriculum vitae, a summary of the past research activities and provide a list of three names of possible referees to:

Institute for Theoretical Physics

Prof. Roser Valentí

mrv@itp.uni-frankfurt.de **(please use only this email address for the application)**