Open positions available in

Condensed Matter Theory

at the Institute for Theory of Statistical Physics, RWTH Aachen University
and JARA - Fundamentals of Future Information Technology:

Two postdoc position

(salary class TV-L E13) initially offered for one year with a possible extension.

The positions are offered in the junior research group of Prof. Janine Splettstoesser and in the research groups of Prof. Volker Meden, Prof. Herbert Schoeller and Dr. Dirk Schuricht. The focus of the research will be in the field of non-equilibrium dynamics of nanoscale devices, in particular, in the field of transport and noise in nanosystems with time-dependent driving (Splettstoesser) and in the development and application of quantum field theoretical methods for strongly correlated quantum systems (Meden/Schoeller/Schuricht). Active collaborations with other research groups at the Institute for Theory of Statistical physics are possible and envisaged.

Our research focuses on quantum dot systems realized in various materials (from heterostructures down to single molecules) where local interactions, strong tunneling and quantum interference effects dominate. Within the framework of the Institutes for Theory of Statistical Physics, for Theoretical Solid State Physics and for Quantum Information at the RWTH Aachen University, a wide ranged platform is provided for research activities in mesoscopic physics, spintronics, molecular electronics, quantum information processing, quantum field theory and renormalization group in nonequilibrium, and strongly correlated systems. In these fields six professors (C. Honerkamp, V. Meden, H. Schoeller, B. Terhal, S. Wessel, and D. DiVincenzo) and six junior research group leaders (F. Hassler, R. Mazzarello, M. Schmidt, D. Schuricht, J. Splettstoesser and M. Wegewijs) are active using modern analytical as well as numerical techniques.

Candidates should have a strong background in mesoscopic physics or alternatively in strongly correlated electron systems. They should be familiar with techniques of quantum many-body physics and interested in learning new approaches.

For the announced position please send your application, including a short CV, describing your research interests and plans, and a list of publications to:

splett@physik.rwth-aachen.de or meden@physik.rwth-aachen.de
(electronic submission preferred) or
Prof. Dr. Janine Splettstoesser or Prof. Dr. Volker Meden, Institut für Theorie der Statistischen Physik, Physikzentrum, RWTH Aachen, 52056 Aachen, Germany