



UNIVERSITY
OF MANITOBA

Postdoc/Research Associate in Theoretical Condensed Matter Physics
(Group J. Sirker)
University of Manitoba, Winnipeg, Canada

Applications are invited for a Postdoctoral Fellowship/Research Associate Position in *Condensed Matter Theory in the group of J. Sirker* at the Department of Physics and Astronomy, University of Manitoba, Winnipeg, Canada. The starting date is flexible but should be no later than Winter 2019. The initial appointment will be for a one- or two-year term (depending on research experience) with the possibility of an extension for up to three years. The initial appointment will be at the Postdoctoral level for candidates who have obtained their Ph.D. within the last five years.

The successful candidate will perform theoretical research on strongly correlated electron systems. A particular focus will be on non-equilibrium dynamics in low-dimensional quantum systems. A specialization in either analytical techniques such as field theoretical methods for condensed matter and Bethe ansatz or numerical techniques including MPS/DMRG algorithms and neural networks will be a plus. Further information about the research interests of the group can be found at <http://drop.physics.umanitoba.ca/~jsirker/>.

The successful candidate is expected to contribute to the International Research Collaboration FOR 2316 funded by the German Research Foundation (DFG) on '*Correlations in Integrable Quantum Many-Body Systems*'. Further information about the research program of the collaboration can be found at <http://for2316.uni-wuppertal.de>.

Please submit your application electronically in a single pdf file to sirker@physics.umanitoba.ca. The application should include a cover letter, a CV, a brief statement of research experience and interests, as well as a list of publications. In addition, two letters of recommendation should be sent independently to the same address.

For full consideration all materials should be received by July 31, 2019. Applications will be reviewed on an ongoing basis and will be considered until the position is filled.

Requirements: Ph.D. in physics, solid knowledge of quantum many-body theory and previous research experience in theoretical condensed matter physics.