

Postdoctoral Fellowship in Quantum Condensed Matter Physics

Group of Prof. William Witczak-Krempa

We invite candidates to apply for a Postdoctoral Fellowship to perform research related to **Quantum states of matter** within the group of Prof. William Witczak-Krempa (Canada Research Chair in Quantum Phase Transitions). The appointment is expected to start **September 1st, 2022** and is expected to last two (2) years, subject to satisfactory performance in the first year. An extension to a 3rd year is possible, subject to satisfactory performance. The salary is competitive.

The group's research covers quantum materials (including unconventional superconductors, topological insulators & semimetals), quantum phase transitions, novel characterization using quantum information, quantum dynamics, and frustrated magnetism. We use cutting-edge field theory techniques, and numerical methods. The candidate will interact with the students of the group, as well as with members of other theoretical and experimental groups.

More information about the research group: <http://physique.umontreal.ca/wwk/>

Profile: The successful candidate must have a PhD in theoretical physics obtained within the last three (3) years, a strong background in quantum many-body physics, and previous research experience in theoretical condensed matter physics.

To apply: Please provide by email to mathilde.girard.1@umontreal.ca :

- Detailed Curriculum Vitae, including full publication list
- Cover letter
- Research proposal (2 pages)
- At least 2 letters of recommendation (to be sent directly by your referees)

Deadline: Applications will be considered starting October 18th, 2021 and until the position is filled.

About the University & the city: Université de Montréal is one of the major research institutions in Canada, and is located in the heart of the vibrant and multicultural city of Montréal. The Physics department is situated in the new science campus (the MIL), built in 2019. It is part of a large strategic cluster (RQMP: <http://www.rqmp.ca/?lang=en>) aimed at the discovery and study of cutting-edge materials. The cluster includes nearby institutions: McGill University, and Université de Sherbrooke.

Campus MIL: the new science campus built in 2019. This modern complex is located in the heart of the city.

