

Graduate Student Positions in Quantum Condensed Matter Physics

The **Condensed Matter Theoretical Physics** research group of **Professor William WitczakKrempa** (Canada Research Chair in Quantum Phase Transitions) at Université de Montréal is looking for talented students to join its team starting **September 1st, 2024**.

The group's theoretical 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.

Collaborative Opportunity: This venture extends beyond the confines of our research group as we proudly collaborate with the newly created **Institut Courtois**. This collaboration opens avenues for using Artificial Intelligence to get deeper insights into quantum many-body physics. Learn more about the collaborative synergy at [Institut Courtois](https://www.institutcourtois.com).

MSc and PhD positions are open. The salary is competitive.

Position Details:

- **Degree Level:** The successful candidates must have a BSc or a MSc in theoretical physics and good knowledge about quantum many-body physics.
- Previous research experience in theoretical condensed matter physics is an asset.
- **Commencement:** September 1, 2024.
- **Compensation:** Highly competitive salary offered.

Application Process:

Interested candidates are requested to submit the following documents to w.witczak-krempa@umontreal.ca

- Curriculum Vitae
- Cover letter
- Transcript of last or current diploma
- At least 2 letters of recommendation (to be sent directly by your referees to the above email)

For further insight into our research group and its endeavours, please visit: [Condensed Matter Theoretical Physics](#)

Deadline: Applications will be considered until **December 20, 2023**.

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](#)) 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.



The Université de Montréal is committed to employment equity and diversity and encourages applications from all qualified candidates, including women, people of any sexual orientation, gender identity, or gender expression; Indigenous peoples; visible minorities and racialized people; and people with disabilities.