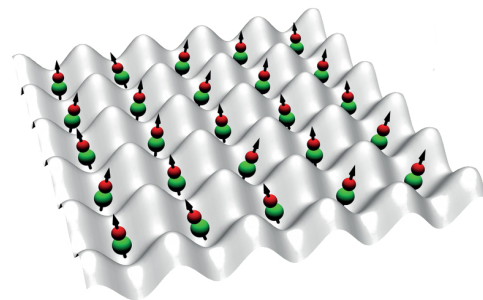


Two M.Sc. student positions in the Laboratory of Quantum Molecular Systems

Project:

"Quantum simulations, computations, and sensing with novel quantum molecular systems" within the Homing grant from the Foundation for Polish Science. The project will be realized in the Centre of New Technologies at the University of Warsaw under the direction of **dr. Michał Tomza** (<http://quantmol.cent.uw.edu.pl>).



The aim of the project is to investigate theoretically novel quantum molecular systems for applications in quantum simulations, quantum computations, and quantum sensing. Two new architectures are proposed: ultracold highly magnetic and polar molecules and polar molecular ions in traps.

The project will be realized in collaboration with prof. Maciej Lewenstein at ICFO – the Institute of Photonic Sciences in Barcelona, Spain.

Candidate's profile:

- B.Sc. degree in physics or related field and the status of first- or second-year master student at the University of Warsaw (as for October 2017).
- Wish to complete M.Sc. thesis in physics or related field in our Laboratory.
- Interest in the subject and motivation to scientific work.
- Knowledge of quantum mechanics and experience in programming will be an additional advantage.

Application should include:

- Cover letter.
- Curriculum Vitae.
- Transcript of records from undergraduate studies.

Candidate should expect:

- Scholarship of **2000 PLN** (netto) per month for 12 or 24 months.
- 2-month internship at the Institute of Photonic Sciences in Barcelona, Spain.
- Participation in scientific schools and conferences.
- To learn and develop skills in the field of ultracold quantum many-body systems.

How to apply:

Applications should be submitted to dr. Michał Tomza by e-mail: m.tomza@cent.uw.edu.pl not later than June 15, 2017.

All applicants are encouraged to contact dr. Michał Tomza prior to the application.