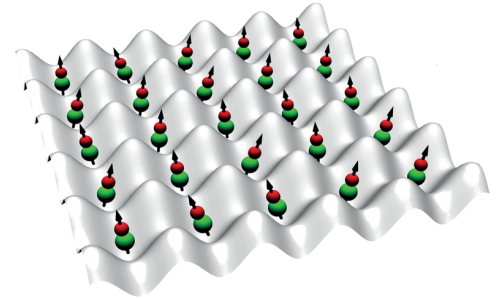


Ph.D. student position in the Laboratory of Quantum Molecular Systems

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:

- M.Sc. degree in physics or related field (as for September 2017).
- Wish to complete Ph.D. 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.

Application should include:

- Cover letter.
- Curriculum Vitae.
- Transcript of records from undergraduate studies.
- Contact details of one or two referees.

Candidate should expect:

- Salary of **5000 PLN** (brutto) per month for 24 months with the possibility to extend for next 12 or 24 months within other project.
- 6-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.