Open position for a PhD student

A PhD student position is available in the Institute of Physics of Polish Academy of Sciences in Warsaw, Poland. The position is a part of the project “Nonlinear phenomena in polariton and exciton superfluids”, aiming at theoretical and numerical research in the fields of optics, condensed matter and quantum physics.

In 2006, Bose-Einstein condensation of polaritons, quasiparticles composed of photons and excitons, was demonstrated in a semiconductor microcavity. Few years later, signatures of a condensate were observed at room temperature. This rapidly developing field is currently attracting great attention due to possible applications including high speed computing and energy efficient optoelectronic and spintronic devices. The project aims at theoretical and numerical study and understanding of nonlinear effects in polariton and exciton superfluids. Research will be carried out in collaboration with leading theoretical and experimental groups.

Profile of candidates:
1. Full university degree,
2. Experience in a related field, ideally proven by publications,
3. Numerical modeling or programming skills,
4. Ability to work in a team,
5. Good spoken and written English.

In addition to the PhD scholarship, the student will receive an extra salary from the project. The total net salary will be about 2800 PLN per month over 3 years, with extension to the fourth year possible. Health insurance will be covered.

Commencement date: October 2012

Applications and inquiries: Dr Michal Matuszewski, mmatu@ifpan.edu.pl