



## Statics and dynamics of magnonic and magnetophotonic crystals – SYMPHONY; 2012.05.01-2015.06.30.

Project coordinator: prof. A.Maziewski, Faculty of Physics, University of Białystok, 15-424 Białystok, Lipowa 41; POLAND; +48 857457229; FAX: +48 857457223, [magnet@uwb.edu.pl](mailto:magnet@uwb.edu.pl)  
<http://physics.uwb.edu.pl/zfmag/TEAM/en/> [team@uwb.edu.pl](mailto:team@uwb.edu.pl)

University of Białystok offers three PhD student positions in the launching **SYMPHONY** project sponsored by the Foundation for Polish Science. This project will be realized in University of Białystok (**UwB**) and at the Institute of Physics Polish Academy of Sciences (**IPPAS**).

**We offer:** (a) attractive modern scientific topics; (b) access to advanced research equipment; (c) participation in international cooperation and conferences; (d) stipend 3500 PLN /month (till July 2015).

There are three following PhD positions:

**Tasks for PhD in IPPAS (1 person):** fabrication of magnetic nanostructures; sample characterization with in-situ techniques; modification of structure, optical and magnetic properties with ion irradiation; patterning of layered structure with focus ion beam FIB; structure fabrication with lithography techniques for spin wave generation (contact prof. A. Wawro [wawro@ifpan.edu.pl](mailto:wawro@ifpan.edu.pl))

**Tasks for PhD in UwB (2 persons):** ex-situ characterization (by different magneto-optical techniques) of nanostructures deposited in IPPAS; study of the ultrafast magnetization dynamics induced by laser pulses (in particular photomagnetic effects) including plasmonic and magnonic effects such as: magnetization reversal, domain wall propagation and spin wave excitation; optical and magneto-optical spectroscopy; spin wave properties studied by Brillouin Light Scattering BLS spectrometry with temporal and spatial resolution; modeling of magnetization dynamics (contact prof. A.Maziewski [magnet@uwb.edu.pl](mailto:magnet@uwb.edu.pl)).

**Profile of candidates:** (i) Master degree (or equivalent) in physics or material science, (ii) highly motivated (proved by a letter of reference from the candidate's thesis supervisor), (iii) fluent in English.

**Recruitment procedure:** Candidates should submit their applications before June 26, 2012 to the e-mail address: [team@uwb.edu.pl](mailto:team@uwb.edu.pl). Applications should contain : (a) CV (b) letter of reference from master thesis supervisor or other scientist; (c) copy of master diploma (or equivalent); (d) contact information, including e-mail address and phone number; (e) any additional information on candidate's abilities (certified by suitable documents) will be an advantage. The selection process will be completed by June 28, 2012. Selected candidates will be invited for an interview which is planned on July 3, 2012 in Białystok.

