Postdoctoral Position in the Spectroscopy of Magnetoelectric Multiferroics

Budapest University of Technology and Economics, 1111 Budapest, Budafoki ut 8.

MTA-BME Lendület Magneto-optical Spectroscopy Research Group

A postdoctoral position is available in the Department of Physics at the Budapest University of Technology and Economics. The current project aims to investigate the optical properties of multiferroic materials in a broad photon energy range from terahertz (THz) to ultraviolet (UV) using polarization sensitive spectroscopy [1-3]. The position is funded by the Momentum Program of Hungarian Academy of Sciences for one year initially, with the possibility of renewal up to five years based on experimental progress.

Qualifications: A Ph.D degree in physics is required. Experience in THz and/or optical spectroscopy, design of optical systems is an advantage.

Application Instructions: Interested candidates should send a cover letter detailing research interests, technical expertise, publication list and CV with two references to Dr. I. Kézsmárki (kezsmark@dept.phy.bme.hu) and Dr. S. Bordács (bordacs.sandor@wigner.bme.hu) till the 15th of September, 2014.

[1] I. Kézsmárki et al., *One-way Transparency of Four-coloured Spin-wave Excitations in Multiferroic Materials*, Nature Communications **5**, 3203 (2014).

[2] S. Bordács et al., *Chirality of matter shows up via spin excitations*, Nature Physics **8**, 734 (2012).

[3] I. Kézsmárki et al., *Enhanced Directional Dichroism of Terahertz Light in Resonance with Magnetic Excitations of the Multiferroic $Ba_2CoGe_2O_7$ Oxide Compound*, Physical Review Letters **106**, 057403 (2011).