SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w środę

9 kwietnia 2014 r., o godz. 10:00

w sali 203 (bud. 1) odbędzie się seminarium, na którym

mgr. Andrei Sazanovich

Instytut Fizyki PAN, Warszawa

wygłosi referat na temat:

Magnetoelectric properties of ferromagnetic/ferroelectrics layered Heterostructures

This work presents the results of the investigations of structural, magnetic and magnetoelectric (ME) properties of ferromagnets/ferroelectrics layered heterostructures. The ferromagnetic (FM) constituents of the heterostructures, Co, Ni, NiFe, were grown on a ferroelectric (FE) PbZr1-xTixO3 (PZT) substrate using ion bean sputtering/deposition technique. Special attention was paid to the structure of the interfaces between ferromagnetic and ferroelectric layers. The magnetic and magnetoelectric measurements have allowed to determine the influence of number, thickness and chemical composition of layers on the magnitude of ME response. Based on the single element structures, the multicomponent heterostructures were formed. The biggest value of ME response of 250 mV/cm·Oe was found for three-component permalloy based heterostructures (Py/PZT/Py)3.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski