SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **środę**

23 stycznia 2013 r., o godz. 10:00

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

Prof. dr hab. V.H. Tran

Institute of Low Temperature and Structure Research,
Polish Academy of Sciences, Wrocław

wygłosi referat na temat:

INTERPLAY BETWEEN MAGNETISM AND SUPERCONDUCTIVITY IN $EU(FE_{1-x}CO_x)_2AS_2$

I will give an overview of the magnetic and superconducting properties of the solid solutions $Eu(Fe_{1-x}Co_x)_2As_2$. In particular, I will focus the effect of magnetic fields on superconductivity and magnetic state in the composition $Eu(Fe_{0.81}Co_{0.19})_2As_2$, for which we recently found that magnetic fields can increase its superconducting transition temperature up to at least 27%. To interpret the field induced superconductivity, several mechanisms, including quantum transition, Jaccarino-Peter effect, low dimensionality and weakening orbital pair-breaking effect will be discussed.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski