

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

3 września 2008 r., o godz. 10:00

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

Dr Janusz Karpiński

Laboratory for Solid State Physics, ETH, 8093 Zürich, Switzerland

wygłosi referat na temat:

**„High pressure growth and properties of
superconducting single crystals
SmFeAsO_{1-x}F_y and NdFeAsO_{1-x}F_y”**

Single crystals of SmFeAsO_{1-x}F_y and NdFeAsO_{1-x}F_y have been grown at high pressure of 30 kbar and at temperature of 1350-1450 °C using cubic anvil high-pressure technique. Superconducting transition temperature of the obtained single crystals varies between 45 and 53 K. Obtained crystals are characterized by full diamagnetic response in low magnetic field and by high critical current density in high magnetic field. Structure refinement has been performed on single crystal. The anisotropy parameter was found to be field independent, but varies strongly with temperature from 8 to 23. STM and point contact spectroscopy investigations indicate the existence of two energy gaps.

Serdecznie zapraszamy

Roman Puźniak

Henryk Szymczak

Andrzej Wiśniewski