

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **ŚRODĘ**

16 maja 2012 r., o godz. 10:00

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

Prof. Alexander Gabovich

Institute of Physics, Kiev, Ukraine

wyłosi referat na temat:

**„Peculiar relations between d -wave
superconductivity and charge-density waves in
cuprates and beyond: Phase diagrams and dc
Josephson currents”**

Phase diagrams of d -wave superconductivity characterized by an order parameter Δ coexisting with charge-density-waves (CDWs) characterized by an order parameter Σ were constructed for the two-dimensional Fermi surface (FS) appropriate, e.g., for cuprates. dc Josephson tunnel current I_c between a conventional superconductor and a partially gapped superconductor with charge density waves (CDWs) and possessing a superconducting order parameter of d - or extended s -symmetry was calculated. A directionality of tunneling was made allowance for. It was found for both cases that the dependences of I_c on the angle γ between the superconducting lobe direction and the normal to the junction plane are significantly influenced by CDWs.

Serdecznie zapraszamy

Roman Puźniak
Henryk Szymczak
Andrzej Wiśniewski