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_

wygłosi 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 $\Delta$ coexisting with charge-density-waves (CDWs) characterized by an order parameter $\Sigma$ 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 $\gamma$ 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