

SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA

Uprzejmie zawiadamiamy, że w **środę**

23 marca 2022 r., o godz.10:00

odbędzie się seminarium **on-line** (link podany jest na stronie IF PAN),
na którym

prof. dr hab. Piotr Wiśniewski

*(Instytut Niskich Temperatur i Badań Strukturalnych PAN im. Włodzimierza Trzebiatowskiego,
Wrocław)*

wygłosi referat na temat:

**“Semimetale topologiczne wśród faz
(pół)Heuslera z ziemiami rzadkimi
i bizmutem, ale nie tylko”**

Discovery of the role of topology in electronic structure and electronic properties has triggered extensive research efforts focused primarily on topological insulators. Soon it occurred, however, that there is another, significantly larger group of topologically nontrivial materials - topological semimetals. Very often, compounds theoretically predicted to be topological insulators are topological semimetals, displaying substantial carrier concentrations. In this lecture I will present our research on such materials, mainly, but not only, half-Heusler phases, discussing possible origins and consequences of their semi-metallicity. I will concentrate on various magneto-transport properties, often reflecting topological nature (nontrivial or trivial) of these materials.

(The lecture will be given in Polish and the slides will be in English).

Serdecznie zapraszamy

**Roman Puźniak
Andrzej Szewczyk
Henryk Szymczak**