

SEMINAR ON MAGNETISM AND SUPERCONDUCTIVITY

We kindly inform You that on **Wednesday**

January 15th at 10:00

there will be a **seminar in room 203, building I,**

where

Prof. Dr. Rajmund Bacewicz

(Faculty of Physics, Warsaw University of Technology)

will deliver a lecture on:

**“Raman scattering
in nodal line semimetal ZrAs₂”**

The seminar will present a Raman study of ZrAs₂ single crystals, a nodal line semimetal. We identified the symmetry of phonon modes by polarized light measurements and comparison with calculated phonon frequencies. Significant dependence of peak intensities on the excitation wavelength indicates quantum interference effects. The electronic background, with quasi-elastic scattering is observed. The temperature dependence of phonon peaks linewidth indicates that the electron-phonon coupling plays an essential role in phonon decay. Preliminary results of the high pressure Raman measurements of ZrAs₂ will be presented.

The seminar will be given in Polish on-site in room 203, slides will be in English.

ZOOM transmission will be available too - link is provided on the IP PAS website.

We sincerely invite You

Roman Puźniak / Andrzej Szewczyk / Henryk Szymczak