

# **SEMINARIUM Z MAGNETYZMU I NADPRZEWODNICTWA**

Uprzejmie zawiadamiamy, że w **PIĄTEK**

**1 lipca 2016 r., o godz. 11:00**

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

**Prof. Hitoshi Ohta**

*Molecular Photoscience Research Center, Kobe University, Japan*

wyłosi referat na temat:

## **Multi-Extreme THz ESR: Its developments and Applications**

Development of THz electron spin resonance (ESR) under multi-extreme conditions is in progress at Kobe. Here multi-extreme conditions include the high magnetic field, the high pressure, the low temperature, It can cover the frequency region between 0.03 and 7 THz, the magnetic field region up to 55 T, the pressure region up to 1.5 GPa, and the temperature region between 1.8 and 300 K. Recently we achieved 2.5 GPa using the hybrid-type pressure cell. Moreover, we are also developing the micro-cantilever ESR, which is the mechanical detection technique and enables the measurements of micrometer size single crystals. Recently we succeeded in making the micro-cantilever ESR measurements beyond 1 THz. As an application of such system, high pressure THz ESR on the Shastry-Sutherland Model Substance  $\text{SrCu}_2(\text{BO}_3)_2$  up to 2 GPa at 2 K will be presented.

Serdecznie zapraszamy

Roman Puźniak  
Henryk Szymczak  
Andrzej Wiśniewski