

SEMINARIUM RENTGENOWSKIE

Dnia 27.08.2015 r. o godz. 14.00 w sali D Instytutu Fizyki PAN, odbędzie się seminarium (Część II), na którym **Dr. Jürgen Härtwig (ESRF, Grenoble, France)** wygłosi referat, przygotowany w ramach projektu EAgLE, pt.:

“Elements of X-ray optics and examples of X-ray topography of monochromator crystals”

Streszczenie:

In the first part of this seminar some information about X-ray optics will be presented. This includes a short introduction to explain what is X-ray optics, what are its tasks, which parameters of an X-ray beam may be controlled, etc. The presented details and examples are mainly selected from the world of synchrotron light sources, however all those basics also apply to laboratory X-ray sources.

High quality monocrystals like silicon, germanium and diamond are important materials for a number of X-ray optical elements (Fresnel lenses, mirrors, multilayer substrates...). For applications like monochromators the bulk, surface and subsurface quality are crucial. Thus it is necessary to measure those properties. One of the possible, necessary and often exploited characterisation methods is X-ray topography Bragg diffraction based X-ray imaging). Some examples will be presented, with an accent on the crystalline quality of synthetic diamond.

Prof. dr hab. Wojciech Paszkowicz