

SEMINARIUM RENTGENOWSKIE

Dnia 09.10.2018 r. o godz. 10.30, w sali D Instytutu Fizyki PAN, odbędzie się seminarium rtg., na którym **dr A.N. Shekhovtsov** z Institute for Single Crystals, NAS of Ukraine, wygłosi referat na temat:

"Promising hosts for 1.5 μm lasers - growth and properties of borate single crystals"

Summary:

Solid state lasers emitting at near 1.5 μm are of great interest for several applications: laser range-finding, environmental sensing, telecommunications. Advantages of the lasers are eye safety, high transparency in atmosphere and low losses and minimal value of the group velocity dispersion in fused-silica waveguides. But mostly used commercial material for active elements of 1.5 μm is phosphate glass having essential advantages. For this reason search for new efficient materials for active elements of 1.5 μm lasers is actual tasks. Binary borates demonstrate high potential for 1.5 μm laser operation. The review of crystals used for 1.5 μm laser operation is done. Problems of crystal growth, typical defects and other properties of binary borate crystals are discussed.

Prof. dr hab. Krystyna Jabłońska
Prof. dr hab. Wojciech Paszkowicz