**Seminarium Studium Doktoranckiego NCBJ  
Poniedziałek, 27 listopada, godzina 9:00  
Sala 22 w NCBJ,  Hoża 69**  
**Speaker: Paweł Kowalski**  
  
**Title: Characteristics of the J-PET detector simulated using GATE software**  
  
Abstract: Novel PET system based on plastic scintillators is developed by the J-PET collaboration. In order to determine performance characteristics of built scanner prototype, advanced computer simulations must be performed. These characteristics are spatial resolution, scatter fraction and sensitivity. Results of simulations of these characteristics will be presented during the lecture.