

# Application of GEANT4 toolkit in *dd*-gamma experiment in Dubna

V.P. Vol'nykh

*Joint Institute for Nuclear Research, Dubna, 141980, Russia*

An experience of simulation of physical processes using GEANT4 software is presented. It is applied for investigation of the radiative capture reactions stimulated by the muon catalysis using gamma-detectors. The experiment is carried out in DLNP JINR.

The studied problem is a rare process of the radiative capture of deuterons in muonic molecule  $dd\mu$ :

