

Session Program

15-22 Oct 2009



14th Geant4 Users and Collaboration Workshop

Parallel Session III - Medical

Laboratori Nazionali del Sud - INFN
Via S. Sofia 62, Catania (I)

Thursday 15 October

16:30

Parallel Session III - Medical

Session | **Location:** Laboratori Nazionali del Sud - INFN, Room "Azzurra", Via S. Sofia 62, Catania (I)

16:30-16:50

From imaging to dosimetry: Geant4-based study on the application of Medipix2 to neutron personnel dosimetry.

Speaker

Dr S. Guatelli

16:50-17:10

Skin Dosimetry in MRI-guided Radiotherapy (MRIgRT)

Speaker

Mr Bradley Oborn

17:10-17:30

Geant4-based studies to characterise the tissue-equivalence of SOI and diamond microdosimeter detectors, under development at CMRP.

Speaker

Dr S. Guatelli

17:30-17:50

Dosimetric study of photon dose distribution in lungs under different respiratory phases: comparison with GEANT4 simulations

Speaker

Dr Barbara Caccia

17:50-18:10

Implementation of a Monte Carlo - GEANT4 Simulation for the dosimetric study of electron beams produced by a mobile accelerator for IORT

Speaker

Dr Giorgio Russo

18:10-18:30

The role of Geant4 in the production of a database for an ion therapy Treatment Planning System

Speaker

Germano Russo

18:30-18:50

Geant4 based simulation of the Leksell Gamma Knife for treatment planning validation

Speaker

Dr Francesco Romano

18:50