

## **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