

Session Program

6-8 Dec 2019

**Monte Carlo Workshop for Radiotherapy,
Imaging and Radiation Protection**

Session VIII

Sunday 8 December

09:00

Session VIII: Imaging

Session | **Conveners:** Stephen McMahon, Alessandra Malaroda

09:00–09:30

In-Silico Optimisation of Tileable SiPM Based Monolithic Scintillator Detectors for SPECT Applications

Speaker

Jeremy Brown

09:30–10:00

Risk of radiation-induced breast cancer in phase-contrast mammography

Speaker

Vincent Beaudox

10:00–10:30

Towards Actively Collimated Multi-tracer Imaging (ACMI): A MR compatible active collimation element for high performance simultaneous PET/SPECT imaging at the human scale

Speaker

Jeremy Brown

10:30

11:00

Session VIII: Imaging

Session

11:00–11:30

NEMA-NU 2-2012 Validation of a Geant4 Model of a Whole-Body Prototype PET Scanner with Four-Layer Depth-of-Interaction Detectors

Speaker

Abdella Ahmed

11:30–12:00

Monte Carlo simulations for in-vivo PET in Heavy Ion Therapy

Speaker

Andrew Chacon

12:00–12:30

Geant4 study for dose reconstruction in hadron therapy using in-vivo PET

Speaker

Harley Rutherford

12:30–12:40

Final remarks

Speaker

Susanna Guatelli

12:40