

Virtual GATE Technical meeting



Report of Contributions

Contribution ID: 1

Type: **not specified**

G4 Advanced Examples and of the G4-Med project for medical physics applications.

Thursday, May 20, 2021 9:10 AM (20 minutes)

Presenter: Dr GUATELLI, Susanna (University of Wollongong, Australia)

Session Classification: Session1

Contribution ID: 2

Type: **not specified**

Using GATE for a Digital Tracking Calorimeter in proton Computed Tomography

Thursday, May 20, 2021 9:30 AM (20 minutes)

Presenter: Mr PETTERSEN, Helge (Haukelanf University Hospital, Norway)

Session Classification: Session1

Contribution ID: 3

Type: **not specified**

Projects at the Medical University of Vienna

Thursday, May 20, 2021 2:30 PM (20 minutes)

Presenter: Dr FUCHS, Hermann (Medical University of Vienna, Austria)

Session Classification: Session 3

Contribution ID: 5

Type: **not specified**

Simultaneous multi-probe pharmacokinetic imaging using SiPM-based preclinical SPECT scanner

Thursday, May 20, 2021 4:30 PM (20 minutes)

Presenter: Mrs STRUGARI, Matthew (BIOTIC, Canada)

Session Classification: Session 4

Contribution ID: 6

Type: **not specified**

Calculation of tissue Water-Equivalent Thickness for protons and carbon ions using GATE-RTion

Thursday, May 20, 2021 10:10 AM (20 minutes)

Presenter: Dr BOLSA FERUZ, Marta (MedAsutron, Austria)

Session Classification: Session1

Contribution ID: 7

Type: **not specified**

Monte Carlo Optimization of Positron Emission Particle Tracking Detectors and Tracers

Thursday, May 20, 2021 10:50 AM (20 minutes)

Presenter: Dr HERALD, Matthew (University of Birmingham, UK)

Session Classification: Session 2

Contribution ID: 8

Type: **not specified**

Gate activities @ CRCT - Nuclear Medicine

Thursday, May 20, 2021 1:30 PM (20 minutes)

Presenter: Dr KAYAL, Gunjan (INSERM, SCK, Belgium)

Session Classification: Session 3

Contribution ID: 9

Type: **not specified**

The MoCaMed project

Thursday, May 20, 2021 4:10 PM (20 minutes)

Presenter: Dr BERT, Julien (LATIM, Brest, France)

Session Classification: Session 4

Contribution ID: **10**

Type: **not specified**

GATE simulation of Discovery MI PET scanner and its extended version

Thursday, May 20, 2021 3:50 PM (20 minutes)

Presenter: Dr TIWARI, Ashok (University of Iowa Hospitals & Clinics, USA)

Session Classification: Session 4

Contribution ID: 11

Type: **not specified**

Modelling the radiation exposure of microorganisms that live in radioactive mineral springs

Thursday, May 20, 2021 3:30 PM (20 minutes)

Presenter: Mrs KOLOVI, Sofia (LPC, Clermont, France)

Session Classification: Session 4

Contribution ID: 12

Type: **not specified**

Investigating the use of promptly emitted Cerenkov photons using GATE. Updates from UC Davis

Thursday, May 20, 2021 11:10 AM (20 minutes)

Presenter: Dr TRIGILA, Carlotta (University of California Davis, USA)

Session Classification: Session 2

Contribution ID: 14

Type: **not specified**

BiodoseActor implementation in Gate

Thursday, May 20, 2021 2:50 PM (20 minutes)

Presenter: Mrs ALI, Yasmine (IP2I, LPC)

Session Classification: Session 3

Contribution ID: 15

Type: **not specified**

Dosimetry Study in GATE Using Multimodal Images

Thursday, May 20, 2021 1:50 PM (20 minutes)

Presenter: Mr COSTA, Gustavo (UC Davis, USA)

Session Classification: Session 3

Contribution ID: 16

Type: **not specified**

Design and validation of a mouse brain PET with a staggered 3-layer DOI detector

Thursday, May 20, 2021 11:30 AM (20 minutes)

Presenter: Dr KANG, Han Gyu (QST, Japan)

Session Classification: Session 2

Contribution ID: 17

Type: **not specified**

Latest MC activities within the J-PET project

Thursday, May 20, 2021 11:50 AM (20 minutes)

Presenter: Dr KRZEMIEN, Wojciech (National Centre for Nuclear Research, Krakow, Poland)

Session Classification: Session 2

Contribution ID: 18

Type: **not specified**

Gate modelling of a proton beam line at the ARRONAX cyclotron facility: determination of dose and range uncertainties, current work and perspectives

Thursday, May 20, 2021 2:10 PM (20 minutes)

Presenter: Dr VILLOING, Daphnée (ICO, France)

Session Classification: Session 3

Contribution ID: 20

Type: **not specified**

GATE imaging activities @ BIOEMTECH

Thursday, May 20, 2021 9:50 AM (20 minutes)

Presenter: Dr CHATZIPAPAS, Konstantinos (BIOEMTECH, Greece)

Session Classification: Session1

Contribution ID: 21

Type: **not specified**

γ -Ray photons reconstruction with Convolution Neural Network for PET imaging

Thursday, May 20, 2021 12:10 PM (20 minutes)

Presenter: Mrs SERGEYEVA, Viktoriya (CEA Saclay, BioMaps, France)

Session Classification: Session 2

Contribution ID: 22

Type: **not specified**

GATE current status & perspectives

Thursday, May 20, 2021 4:50 PM (35 minutes)

Presenter: Dr SARRUT, David (OpenGATE collaboration)

Session Classification: Session 4

Contribution ID: 23

Type: **not specified**

Welcome-Introduction

Thursday, May 20, 2021 9:00 AM (10 minutes)

Presenter: Dr MAIGNE, Lydia (University Clermont Auvergne)

Session Classification: Welcome-Introduction