

IV Geant4 International User Conference at the physics-medicine-biology frontier

Tuesday, October 25, 2022

Geant4 for Photons and Electrons Radiotherapy: Geant for Photons and Electrons - Centro Congressi “Federico II”,
(4:00 PM - 6:34 PM)

| time | [id] title | presenter |
|---------|---|--------------------------|
| 4:00 PM | [18] Keynote Lecture: Geant4 for Flash radiotherapy: status and challenges | Prof. DESORGHER, Laurent |
| 4:23 PM | [128] Keynote: EM aspects in Geant4 | IVANCHENKO, Vladimir |
| 4:46 PM | [42] Extension of the discrete electron transport capabilities of the Geant4-DNA toolkit to the radiotherapeutic regime | KYRIAKOU, Ioanna |
| 4:58 PM | [37] Calculation of chemical species yields in liquid water after high energy electron irradiation up to 10 MeV using Geant4-DNA | Dr ZEIN, Sara |
| 5:10 PM | [47] Validation of Monte Carlo GATE for IORT | DI DOMENICO, Giovanni |
| 5:22 PM | [22] Evaluation of the effect of oxygen in Flash irradiation through Geant4-DNA | FAROKHI, Fateme |
| 5:34 PM | [93] VALIDATED MONTE CARLO SIMULATION OF TRIODE- ELECTRON GUN EQUIPPED ELECTRONFLASH LINAC | PENSAVALLE, Jake Harold |
| 5:46 PM | [104] Monte Carlo optimization of the target configuration for bremsstrahlung x-ray production in flash radiotherapy | RUSSO, Paolo |
| 5:58 PM | [30] Dose enhancement applied to synchrotron X-ray microbeams: computational modelling and experimental validation. | Dr DUFFY , Jon |
| 6:10 PM | [26] Development of Geant4 DICOM based dose calculation for Synchrotron Microbeam Radiation Therapy | GUATELLI, Susanna |
| 6:22 PM | [25] A Monte Carlo based investigation of the FLASH effect by examining inter-track interactions in radiobiological simulations performed with TOPAS-nBio | DERKSEN, Larissa |