

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

Monday, October 24, 2022

Geant4 for Protons and Hadrons Radiotherapy 2 - Centro Congressi "Federico II", (4:43 PM - 7:00 PM)

time	[id] title	presenter
4:43 PM	[17] Keynote Lecture: Geant4 for Hadron therapy: status and challenges	PETRINGA, Giada
5:06 PM	[55] Benchmarking GATE/Geant4 and RayStation MC for pencil beam scanning light ion beams in combination with a passive beam collimation for small fields	Dr RESCH, Andreas
5:18 PM	[50] Benchmarking dose-averaged LET calculation of a commercial treatment planning system and GATE/Geant4 for carbon ion beams	RESCH, Andreas
5:30 PM	[54] IDEAL/GATE-RTion for independent dose calculation in carbon ion beam therapy	Dr RESCH, Andreas
5:42 PM	[34] Development of a Geant4 simulation platform of the HollandPTC R&D proton beamline for radiobiological studies	GROENENDIJK, Celebrity
5:54 PM	[21] A review of Monte Carlo calculated fQ factors for ionization chambers in clinical proton beams	Dr BAUMANN, Kilian-Simon
6:06 PM	[35] Using an iterative shielding approach for the first carbon ion therapy facility in the US by means of Geant4	BOLST, David
6:18 PM	[36] Validation of Geant4 fragmentation models in 4He ion therapy	BOLST, David
6:30 PM	[86] Biological dose estimation for proton and carbon ion treatment plans using the GATE platform	MAIGNE, Lydia
6:42 PM	[89] The new "RPWBA" implemented model for proton ionization and excitation of liquid water above 100 MeV	CORTES-GIRALDO, Miguel Antonio