



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

## Monday, October 24, 2022

### Opening Session - Centro Congressi "Federico II", (8:30 AM - 10:30 AM)

time	[id] title	presenter
8:45 AM	[3] Geant4 Medical Physycs Application in Naples (A. Sarno)	Dr SARNO, Antonio
9:02 AM	[8] Keynote Lecture: Recent Geant4 developments	Prof. VEDERI, Marc
9:25 AM	[41] Development of interaction models in Geant4- DNA to simulate cosmic rays' effects on ionmolecules reaction in the atmosphere	NICOLANTI, Francesca
9:37 AM	[44] Nanodosimetric Study of Radiation in the Brain and Eyes of Astronauts on the Lunar Surface	ARCHER, Jay
9:49 AM	[32] Calculation of organ-specific radiation quality factors for the radioprotection of astronauts on the Moon: a microdosimetric approach	LARGE, Matthew
10:01 AM	[107] GEANT4-Gamma Diffraction Code Based on Laue lens Modelling: Design Foundation and Implementation of the First Set of Models in GEANT4	BARHOUM, Alaa
10:13 AM	[99] Geant4 simulations of two types of CdZnTe-based $\gamma$ -ray spectrometers for the monitoring of the radioactivity in the marine environment	LAGAKI, VARVARA