14th Geant4 Space Users Workshop

Monday, 21 October 2019

session: Welcome and general status report (09:30 - 10:30)

   -Conveners: Ioannis Daglis

time	[id] title	presenter
09:30	[20] Welcome and overview of Greek Geant4-based activities	Prof. DAGLIS, Ioannis
10:00	[21] ESA status report	VUOLO, Marco NIEMINEN, Petteri SANTIN, Giovanni

session: General status report (11:00 - 12:30)

   -Conveners: Giovanni Santin

time	[id] title	presenter
11:00	[2] Geant4 usage at JPL	ZHU, Xiaoyu
11:30	[22] Geant4 usage at JAXA	OZAKI, Masanobu
12:00	[26] Persistency of Geant4 Phase-Space Information for Radiation Effects and Instrument Background Analysis	TRUSCOTT, Pete

session: Space missions - instruments and detectors (14:00 - 15:30)

   -Conveners: Pete Truscott

time	[id] title	presenter
14:00	[8] AREMBES: Geant4 validation for X-ray space missions and G4 simulator development	LOTTI, Simone
14:30	[12] Measurements and Geant4 simulations of the back-scattered electrons off ATHENA X-ray mirrors	LEI, Fan
15:00	[18] Latest Updates of Grazing Angle Soft Proton Scattering on X-ray Optics	DIEBOLD, Sebastian

session: Space missions - instruments and detectors (16:00 - 17:30)

   -Conveners: Marco Vuolo

time	[id] title	presenter
16:00	[17] GEANT4 simulation Study of the MIDAS dosimeter/radiation monitor	Dr PAPADIMITROPOULOS, Christos
16:30	[1] The impact of low-energy electrons on EP-WXT based on Geant4 simulations	Dr ZHAO, DONGHUA

Tuesday, 22 October 2019

session: Tools (11:00 - 12:30)

-Conveners: Masanobu Ozaki

time	[id] title	presenter
11:00	[5] GUIMesh: a tool to import STEP geometries into Geant4 via GDML	PINTO, Marco
11:30	[15] Geant4Py for X-ray Detector Background Simulations	POMMRANZ, Christian
12:00	[16] TRADCARE: a multi-physics SEE prediction software using Geant4 toolkit	Dr ANDRIANJOHANY, Nomena

session: Tools (14:00 - 15:30)

-Conveners: Mark Looper

time	[id] title	presenter
14:00	[4] The EXACRAD Project	Dr MOLENDI, Silvano
14:30	[9] Geant4 tools in SPENVIS: A user perspective	MESSIOS, Neophytos
15:00	[19] A comparative study of multiple scattering calculations implemented in general-purpose Monte Carlo codes	Prof. KOKKORIS, Michael Dr VAGENA, Eleni Dr ANDROULAKAKI, Effrosyni Prof. PATRONIS, Nikolaos

session: Medical and bio (16:00 - 17:30)

-Conveners: Ioanna Kyriakou

time	[id] title	presenter
16:00	[10] Microdosimetry with Geant4 for Quality Factor estimates	Dr KYRIAKOU, Ioanna
16:30	[14] Quantitative estimation of biological effects after irradiation by MPEXS-DNA	Dr OKADA, Shogo

Wednesday, 23 October 2019

<u>session: Space missions - instrument and detectors</u> **(09:00 - 10:30)**

   -Conveners: Vladimir Ivantchenko

time	[id] title	presenter
09:00	[11] IXPE related Geant4 simulation	Dr XIE, Fei
09:30	[28] Geant4 simulation for proton irradiation experiments of space-use imager	OZAKI, Masanobu
10:00	[24] Improving LRO/CRaTER Measurements of Cosmic-Ray LET Spectra and Lunar Albedo Protons	LOOPER, Mark

<u>session</u> **(11:00 - 12:30)**

   -Conveners: Makoto ASAI

time	[id] title	presenter
11:00	[25] Examples of applications cases of GEANT4 in space environment effects analysis with the SpaceSuite tools and feedbacks	Mr FOREST, Julien
11:30	[13] Comparison of Insight-HXMT simulated background with observations	ZHANG, juan
12:00	[27] Discussion and closing remarks	ASAI, Makoto