

# 18th International School on the Effects of Radiation on Embedded Systems for Space Applications (SERESSA)

**SERESSA 2022**

Organizers:



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## **Introduction to G4SEE: a toolkit for simulating radiation effects in electronics I**

*Tuesday, 6 December 2022 09:00 (50 minutes)*

G4SEE, a novel Geant4-based Monte Carlo simulation toolkit is being developed at CERN for the radiation effects community, and released as a free and open-source code. It has been already demonstrated and validated experimentally by measurements of inelastic energy deposition single events of monoenergetic neutrons below 20 MeV. These two hands-on lectures will give an introduction on how to use the G4SEE toolkit in simple, but real-life scenarios to simulate, analyse and better understand the nuclear physics of Single Event Effects induced by neutrons and protons in microelectronic structures.

G4SEE website: <https://cern.ch/g4see>

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