SERESSA 2022

Introduction to OMERE:

a tool for space environment and radiation effects on electronics devices

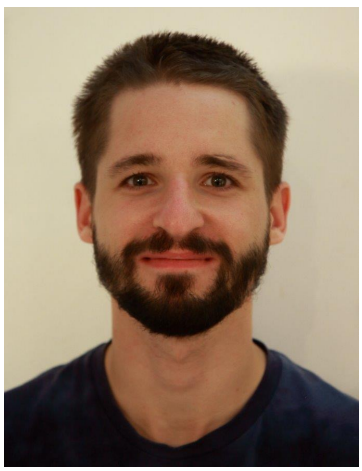
Léo Coïc, TRAD

Abstract:

This talk introduces the OMERE freeware and its capabilities. OMERE is a tool developed by TRAD with the support of the CNES according to the need of major actors of the European space industry. It is dedicated to accurately model the space environment for earth and interplanetary missions with industry approved and up to date environment models as well as estimate its effect on electronic devices. During this talk the main capabilities of the OMERE software will be showcased and we will go through the different steps necessary to perform calculations.

Short Bio:

Léo Coïc is a radiation engineer at TRAD. He received his master's degree in Space Systems Engineering from ESTACA (France) in 2020. Focused on the effects of radiation on electronic devices, his main activities involve working on single event effects analyses for the industry and R&D studies focused on simulation and experimental characterization of single event effects sensitivity in advanced technologies.



Organizers: