

Session Program

1-6 Oct 2023



TWEPP 2023 Topical Workshop on Electronics for Particle Physics

Radiation-Tolerant Components and Systems

Geremeas, Sardinia, Italy
Calaserena Village, Geremeas, Quartu S.Elena, Sardinia (Italy)

Thursday 5 October

15:20

Radiation-Tolerant Components and Systems

Session | Location: Sirocco Room | Convener: Alessandro Cardini

15:20-15:40

Prototype measurement results in a 65nm technology and TCAD simulations towards more radiation tolerant monolithic pixel sensors

Speaker

Corentin Lemoine

15:40-16:00

Single Event Effects characterization of a commercial 28 nm CMOS technology

Speaker

Giulio Borghello

16:00-16:20

Characteristics and total ionizing dose response of 22nm Fully Depleted Silicon-on-Insulator

Speaker

Mr Gennaro Termo

16:20

Friday 6 October

09:00

Radiation-Tolerant Components and Systems

Session | Location: Sirocco Room | Convener: Hucheng Chen

09:00-09:20

CERN Radiation Hardness Assurance: Challenges and Solutions for Large-Scale Distributed System Exposed to High-Energy Particle Accelerator Environments

Speaker

Alessandro Zimmaro

09:20-09:40

CRATEBO: A High-speed, Radiation-Tolerant and Versatile Testing Platform for FPGA Radiation Qualification for High-Energy Particle Accelerator applications

Speaker

Antonio Scialdone

09:40