

Workshop on Electronics for physics experiments and applications @INFN

Wednesday, 5 March 2025

**Operation in extreme environment: Radiation hardness, cryogenics, ultra low power, reliability - Aula Magna Lingotto
(14:00 - 15:45)**

time	[id] title	presenter
14:00	[2] Performance of nanoscale CMOS analog front-end circuits in extreme radiation environments	RE, Valerio
14:35	[3] Total Ionizing Dose effects at ultra high doses: a comparison between planar and FinFET technologies	MATTIAZZO, Serena
15:00	[6] On-line Testing and Healing Permanent Radiation Effects in Reconfigurable Systems	STERPONE, Luca
15:25	[7] Radiation-hardened embedded FPGA for applications in high-energy physics	FRONTINI, Luca

**Operation in extreme environment: radiation hardness, cryogenics, ultra low power, reliability - Aula Magna Lingotto
(16:15 - 18:30)**

time	[id] title	presenter
16:15	[8] Very low noise transimpedance amplifiers to readout SiPMs at cryogenic temperature	GOTTI, Claudio
16:40	[10] Low-Power Front-End Electronics chip design for the LITE_SLPD experiment in space applications	BADONI, Davide
17:05	[9] From lab to orbit: an overview of the IXPE readout electronics design	MINUTI, Massimo
17:30	[11] Cold electronics for Martian and lunar exploration. Threats, opportunities and technological challenges	ZERILLI, Luca
17:55	[12] Roundtable Discussion: Q&A and Insights	