

Workshop on Electronics for Physics Experiments and Applications @INFN

Friday, 7 March 2025

Future (Electronics for Quantum Technologies (Single Photon Detection), gravitational wave detection (Einstein Telescope), and Real-Time Artificial Intelligence - Aula Magna Lingotto (08:45 - 10:20)

time	[id] title	presenter
08:45	[28] Electronic System for the Control and Readout of Superconducting Quantum Bits	Dr GIACHERO, Andrea
09:10	[41] Simultaneous control and readout of multiple superconducting qubits	DE DOMINICIS, Francesco
09:30	[27] CMOS SPAD Arrays for Quantum Imaging: Opportunities and Challenges	GANDOLA, Massimo
09:55	[44] Random Power, a platform of random bit streamers: challenges in its ASIC implementation and envisaged solutions	CACCIA, Massimo

Future (Electronics for Quantum Technologies (Single Photon Detection), gravitational wave detection (Einstein Telescope), and Real-Time Artificial Intelligence - Aula Magna Lingotto (10:50 - 12:20)

time	[id] title	presenter
10:50	[29] Next-Generation Control Systems for European Gravitational Waves Detectors	GENNAI, Alberto
11:15	[30] Low Latency Data Acquisition for Future Gravitational Waves Detectors	PROSPERI, Paolo
11:35	[71] Memristor-CMOS Synergy – Innovating Circuit Configurations for In-memory Computing	BOCCI, Valerio
12:00	[68] Exploring Novel Neuromorphic Computing Architectures with a Multi-Node FPGA System	PERTICAROLI, Pierpaolo