

IoT BatMon: Wireless radiation monitoring at CERN

Wednesday 2 March 2022 09:45 (15 minutes)

BatMON is a wireless, battery-powered radiation monitoring system for particle accelerators. The system can measure TID and High-Energy Hadron and Thermal Neutron fluences, thanks to the Floating-Gate dosimeter and SRAMs embedded in the sensor mezzanine. Its radiation qualification is complicated both by its low-power and wireless architecture, but also by the unavailability of CHARM. An alternative and specific qualification methodology is needed.

Presenters: ZIMMARO, Alessandro (Universite Montpellier I (FR)); DANZECA, Salvatore (CERN)

Session Classification: Research and Development