

Session Program

1-2 Mar 2022

R2E Annual Meeting 2022

Research and Development

CERN, <https://cern.zoom.us/j/67303960467?pwd=dVJIYTBoYlJKOUN5bHBOYTRpMU9Kdz09>

Wednesday 2 March

08:30

Research and Development

Session | **Location:** CERN, <https://cern.zoom.us/j/67303960467?pwd=dVJIYTBoYlJKOUN5bHBOYTRpMU9Kdz09> | **Convener:** Ruben Garcia Alia

08:30–08:45 **G4SEE, the open-source SEE simulation toolkit and its applications**

Speaker

David Lucsanyi

08:45–09:00 **Benchmark between FLUKA and radiation detectors at IR4**

Speaker

Daniel Prelipcean

09:00–09:15

Energy deposition studies for synchrotron radiation (SR) in the FCC-ee arcs in FLUKA

Speaker

Barbara Humann

09:15–09:30

Low-energy protons: numerical simulations, modelling, issues and impact for the accelerator

Speaker

Andrea Coronetti

09:30–09:45

Common building blocks: FPGA testing

Speakers

Antonio Scialdone, Rudy Ferraro

09:45–10:00

IoT BatMon: Wireless radiation monitoring at CERN

Speakers

Alessandro Zimmaro, Salvatore Danzeca

10:00–10:15

Coffee break

10:15–10:30

Radiation hardness assurance and testing

Speaker

Rudy Ferraro

10:30–10:45

Flogating gate dosimeter investigation and usage

Speaker

Matteo Brucoli

10:45–11:00

Space RadMon, a radiation tolerant monitor device for cubesats

Speaker

Panagiotis Gkountoumis

11:00–11:15

CHIMERA status and outlook

Speaker
Andreas Waets

11:15-11:30 **IRRAD diode measurements with protons and heavy ions**

Speaker
Natalia Emriskova

11:30

13:45

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13:45-14:00 **Radiation tolerance of EPDM O-rings used at CERN: recent results**

Speaker
Matteo Ferrari

14:00-14:15 **Radiation damage studies on lubricants**

Speaker
Dominika Senajova

14:15-14:30

New NEAR irradiation station at n_TOF: design, implementation and first results

Speakers
Dominika Senajova, Matteo Ferrari

14:30-14:45 **nTOF SEE benchmarks**

Speaker
Mario Sacristan Barbero

14:45-15:00 **Neutron measurements in medical LINACs through SRAMs**

Speaker
Matteo Cecchetto

15:00-15:15

Photoneutron field analysis near an Al-based target at the CLEAR accelerator

Speaker
Giuseppe Lerner

15:15-15:30

Experimental activities at the CLEAR facility: flash effect and displacement damage

Speaker
Andrea Coronetti

15:30-15:45 **Coffee break**

15:45-16:00

Radioluminescent optical fibre: recent developments for dosimetry applications

Speaker
Nourdine Kerboub

16:00-16:15 **Puli Lunar Water Snooper R&D activities at CERN**

Speaker
David Lucsanyi

16:15-16:30 **R2E applications of TimePix3**

Speaker
Ivan Slipukhin

16:30-16:45 **RADSAGA: outcomes and benefits**

Speakers
Sonia Allegretti, Ygor Aguiar

16:45