

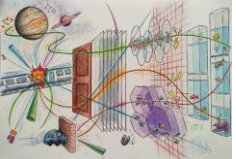


Summary of DRD3 WG5 irradiation activities

Bojan Hiti, Ivan Vila

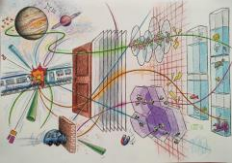
4th DRD3 Week, CERN

13 November 2025



- **Extreme fluence (1e18) neutron irradiation in Ljubljana (2nd run, October 2025)**
 - Organization by Igor Mandić (igor.mandic@ijs.si)
 - 40 h (1 week) dedicated reactor time for DRD3 activity (EURO-LABS)
 - Fluences 2.3e17, 5.2e17, 1e18
 - 10 users

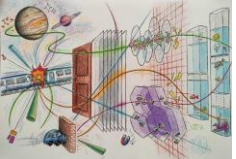
- **CERN IRRAD 24 GeV proton irradiation**
 - DRD3-initiated campaign to simplify organization for significant number of samples/fluences
 - Fluences up to 1e16p (1e17p)
 - Thanks to Leena Diehl for help with on-site sample handling
 - 3 users



Finished and ongoing activities

- **Fermilab 400 MeV proton irradiation**

- Early 2026, organization by Sally Seidel (seidel@unm.edu)
- Requested fluences $1e13$ – $1e16$
- 6 user requests (+1 interested in possible future possibilities)



Future irradiation campaigns

DRD3

- **IFJ Krakow 60 MeV protons (EURO-LABS)**

- **15-19 December 2025**
- Up to 3 samples can be irradiated at one time, not thick (ideally ≤ 300 μm)
- Flux 1.7×10^{11} p/cm²/s
- 5 days, 14h/day \rightarrow max fluence 4.4×10^{16} p/cm²
- Please communicate your interest to WG5 (drd3-wg5-conveners@cern.ch)
- A second campaign possible in July 2026

- **IRRAD 24 GeV protons**

- Running for 20 weeks in 2026, then shutdown
- Planning one more DRD3 call in 2026

- **Access to several irradiation facilities is possible via EURO-LABS transnational access**

- EURO-LABS project runs out in Aug 2026

- WG5 webpage