

## Detector Response in Pulsed Fields

Bachelor or Master Thesis, Experiment

### Abstract:

Ionizing radiation at ELI Beamlines is produced in ultrashort pulses (10 fs). Since standard ionizing radiation detectors and dosimeters are not suited to measure in such fields, it is not clear, whether their response is reliable. Therefore, to understand the behavior of the dosimeters and establishing adequate radiation protection protocols for laser-based facilities, it is fundamental to compare data from active and passive dosimetry systems with Monte Carlo simulations and experimental data obtained by laser diagnostics.

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