

Design of an Ambient Dosimeter

Bachelor or Master Thesis, Monte Carlo Simulation and Experiment

Abstract:

ELI Beamlines will host several sources of ionizing radiation, each with specific characteristics. The ionizing radiation has to be monitored around the facility using passive ambient dosimeters, e.g. OSL, TLD or film dosimeters. Since current dosimeters are not suited for high-energy pulsed fields, there is a need to design a novel badge, which would allow determination of the dose rate and the energy of particles. The design shall be prepared using Monte Carlo simulations and experimental results.

Contact:

Roberto Versaci, PhD

E-mail: Roberto.Versaci@eli-beams.eu