

Exploring New Physics with the Optical Dump at LUXE

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The LUXE experiment at DESY stands at the forefront of the investigation of strong-field quantum electrodynamics with high precision. The interaction between electrons or photons and a high-intensity laser generates new electrons, positrons, and photons. The phenomena under examination include the non-linear Compton scattering. In this talk, I will explain how the photons produced in this process offer an avenue for exploring new physics through a beam-dump-type experiment.

Orateur: SCHULTHESS, Ivo (DESY)