

Exploring New Physics at LUXE Through Its Optical Dump

Wednesday 13 December 2023 10:00 (15 minutes)

The LUXE experiment at DESY stands at the forefront of the investigation into 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.

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Session Classification: Searches Parallel

Track Classification: Parallels: Searches