



Contribution ID: 92

Type: **not specified**

## The LUXE Experiment

This document presents an overview of LUXE (Laser Und XFEL Experiment), an experiment that will combine the high-quality and high-energy electron beam of the European XFEL with a high-intensity laser, to explore the uncharted terrain of strong-field quantum electrodynamics. The scientific case, facility, and detector setup are presented together with an overview of the foreseen timeline and expected capital costs.

**Authors:** MELONI, Federico (Deutsches Elektronen-Synchrotron (DE)); WING, Matthew (University College London); JACOBS, Ruth Magdalena (Deutsches Elektronen-Synchrotron (DE))