

Preliminary studies and design for laser-driven electron and x-ray sources at the Salamanca High-Power Laser Facility (CLPU)

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We present the current state of the high power laser facilities in Salamanca, Spain, and introduce a roadmap for first experiments on laser-driven electron acceleration and related femtosecond x-ray sources (Betatron radiation, Thomson/Compton Scattering). Prospective beam energies are estimated using the particle-in-cell code CALDER-CIRC. As a supplementary experimental tool, a laboratory for target characterization and tests on X-ray diagnostics, using a high repetition rate femtosecond laser (1 kHz, 7 mJ, 120 fs), has been set up.

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