Contribution ID: **76** Type: **poster**

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

Monday, 3 June 2013 19:30 (30 minutes)

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.

Primary author: Mr DÖPP, Andreas (Centro de Laseres Pulsados)

Co-author: Mr RUIZ MENDEZ, Camilo (Centro de Laseres Pulsados)

Presenter: Mr DÖPP, Andreas (Centro de Laseres Pulsados)

Session Classification: Wine and Poster Session

Track Classification: Wine and Poster Session