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Science at the LCLS – A First Summary

With ultrashort and ultrabright x-ray pulses ($> 10^{12}$ photons in pulses of < 100 femtosecond length) X-ray Free electron lasers provide revolutionary unique new capabilities to study a wide range of phenomena.

Starting operations in 2009 the Linac Coherent Light Source (LCLS) at SLAC has been the first of such machines delivering 500 eV – 10 keV x-rays to users. LCLS is now nearing the end of its fifth experimental run and some of the highlights and lessons learned are reviewed.

Finally, we will present new upgrades and capabilities of LCLS, as well as the launch of LCLS II, which is expected to deliver user beam by 2018.

Thursday, 1st March 2012, 13:30

European XFEL
Albert-Einstein-Ring 19, Hamburg
Room 3.11 – 3rd Floor