Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 05.02.2013

(16:00 in Room 459/30b)

Seeding at the LCLS FEL

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Abstract

This talk will summarize self–seeding developments and performance at the LCLS FEL and mention seeding plans for the future. Topics include a description of the hard x–ray self-seeding apparatus used at LCLS, aspects of tuning up and operating with a seeded beam, various performance parameters such as bandwidth, pulse energy, and intensity jitter; and a description of diagnostics used to measure the spectrum. I will also briefly describe our plans for soft x–ray self–seeding and mention some techniques that might lead to increased spectral brightness.

J.Roßbach (Univ. HH) and M.Vogt (MFL).