Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 05.11.2013

(16:00 in Room 459/30b)

Commissioning of the new Injector Laser System
for the Short Pulse Project at FLASH

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Abstract

In order to extend the parameter range of FLASH towards shorter electron pulses down to a few femto-second self–amplified spontaneous emission (SASE) pulses, shorter bunches with very small charges of a few tens of picocoulombs directly at the photo injector are necessary. To achieve so short bunches at FLASH, a new injector laser delivering pulses of 1 to 5 ps duration has been installed and commissioned. The influence of the laser parameters on the electron beam was studied theoretically.

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