Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 23.01.2017

(16:00 in Room 459/30b)

Progress at FLASH2 and
Experience with Single Spike Lasing at FLASH in the Past 2.5 Years

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Abstract

User operation at FLASH2 started in April 2016 after commissioning. The multi-beamline operation requires a careful set-up of the injector laser, the common beamline and its optics, in particular when FLASH1 and FLASH2 are operated with two completely different charges. Several FLASH2 experiments request for ultra-short pulses. End of 2016, for the first time, ultra-short pulses have been delivered to users. An accurate determination of the pulse duration of these ultra-short pulses is essential for user experiments. From the spectral distributions of pulses close to single-spike we deduced 1.6 modes on average. In parallel the FEL pulse duration has been measured using the THz-Streaking technique. The results of both techniques have been compared.

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