



Contribution ID: 61

Type: **not specified**

SP1: Towards femtosecond level intrinsic synchronization between accelerators and external laser systems

Friday, July 21, 2017 11:00 AM (3 minutes)

Timing jitter between accelerator light sources and external laser systems is one of the crucial parameters which limits temporal resolution and sensitivity of ultrafast time-resolved experiments involving the large-scale facilities. Here, we demonstrate proof of principle realization of a terahertz-based intrinsic synchronization concept that in principle is applicable at any accelerator working with ultra-short electron bunches.

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Session Classification: Speed-Posterpresentation: Controls, Synchronization, Stability

Track Classification: Speedposter_Controls, Synchronisation and Stability