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Type: **Speed talk**

Laser arrival time monitor for FELs

Thursday 8 September 2022 10:50 (3 minutes)

The time arrival stability of the electrons is as good as 5-10 fs rms, but the arrival time of the optical lasers is on the order of 10 fs rms after correction. Here will be presented a laser arrival time monitor: the arrival time of the optical pulses will be measured against a reference from a length-stabilized fiber. With a measurement as close as possible to the interaction point, instabilities due to transport can be evaluated and if possible corrected.

Summary

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