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Type: **Invited talk**

ARES at DESY, with femtosecond synchronization and high stability infrastructures towards advanced accelerator applications.

Thursday, September 22, 2022 9:00 AM (25 minutes)

The generation and acceleration of ultra-short, high quality electron beams has attracted more and more interest in accelerator science. Electron bunches with these properties and highest stability are necessary to operate and test novel diagnostics and advanced high gradient accelerating schemes.

The dedicated R&D linac ARES at DESY (Deutsches Elektronen-Synchrotron) is now fully operational and able to produce these electron beams at the nominal energy of 155 MeV and deliver it to users.

This talk will describe i.a. the fs synchronization at ARES and the infrastructure required to reach highest stability.

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Session Classification: Special Topic