

SwissFEL Photonics: "Pump Laser Workshop"



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Industry - Talk 2: Ultrafast oscillator and kHz amplifiers for use in FELs and Synchrotrons: meeting performance and reliability demands

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Ultrafast amplifiers fulfill multiple purposes when used in conjunction with FELs and particles accelerators: photoinjection, linewidth narrowing and time-resolved experiments. All of these tasks pose specific requirements on the laser sources, inclusive of non-standard performances, tight synchronization with the accelerator and minimal downtime. In this presentation we will review how substantial improvements in power, stability and reliability have been achieved in the current generation of oscillators and amplifiers.

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