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LCLS-II MHz X-Ray Temporal Shaping

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Shaping techniques traditionally used to produce few femtosecond and even sub femtosecond soft X-ray FEL pulses at LCLS do not scale well to high repetition rates. Here we present the progress of the LCLS-II X-ray temporal shaping project which uses infrared and ultraviolet picosecond lasers to shape the electron beam of the LCLS-II superconducting linac. Quickly switching these shaping lasers on and off will enable multiplexing different beams to different beamlines.

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Primary authors: DURIS, Joseph (SLAC National Accelerator Laboratory); CARBAJO, Sergio (University of California, Los Angeles); FRANZ, Paris (Stanford University); GILEVICH, Sasha (SLAC National Accelerator Laboratory); LEMONS, Randy (SLAC National Accelerator Laboratory); MARINELLI, Agostino (SLAC National Accelerator Laboratory)

Presenter: DURIS, Joseph (SLAC National Accelerator Laboratory)

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