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Commissioning and operation of a CW X-ray SASE FEL at SLAC

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LCLS-2 is the first FEL operating in CW mode. During the first stage commissioning including injector, linac and FEL, we successfully achieved the initial goal in the summer of 2023, with operating the beam in the linac at 93kHz, and demonstrated FEL at 1kHz. Since then, operation-based commissioning for performance improvement has started. We will present the latest commissioning progress, covering topics like machine performance improvement and benchmark, rate ramping up and special short pulse mode.

Footnotes

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