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SP4: Simulation of MeV Femtosecond electron diffraction performance based on PITZ beamline

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PITZ is a photoinjector test facility for FLASH and European XFEL, and it has been proposed to be a prototype machine to develop an accelerator based THz source for European XFEL pump-probe experiment. In addition, the machine can also support femtosecond electron diffraction at the same beam repetition rate as European XFEL, which brings XFEL users more flexibility for different experiments. In this poster, a femtosecond electron diffraction scheme based on the PITZ accelerator setup is simulated.

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