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P2.39: Enhancing Design, Calibration, and Characterization of Detectors at the European XFEL with the Pulsed X-ray Test System (PulXar)

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Fourth-generation light sources, like free-electron lasers (FELs) and synchrotrons, have greatly advanced X-ray research in many fields. However, high-performance detector technology is needed to fully utilize these facilities. The PulXar system addresses these challenges by offering a range of tunable features for studying detector performance. It provides uniform X-ray illumination and has shown excellent performance in tests. This work presents the design and results of testing various detectors using the PulXar system.

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