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Development Status of PLS-II Beamline Data Acquisition Software Using Bluesky

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The PLS-II beamline's Data Acquisition (DAQ) software has historically been operated using a variety of platforms, including SPEC, LabVIEW, and beamline-specific custom software. As the need for performance improvement and convenience has arisen, there has been a shift away from the policy of each beamline independently developing its DAQ programs. Instead, there is a growing need to adopt a development environment that utilizes a common framework, enabling uniformity, code reusability, and continuous upgrades. Since 2019, the introduction of Bluesky for development during beamline upgrades has been underway, and it has been applied to XAFS (5), Imaging (2), and HRPD (1) beamlines. This presentation aims to introduce the current status of the DAQ programs in use at the beamlines.

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