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Ophyd: Software for Data Collection, Management, and Analysis

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Ophyd is a Python-based framework for experiment control under development at Brookhaven National Lab and deployed for use on NSLS-II beamlines. The software supports device control, data collection and distribution, reciprocal space operations, integration with electronic logging, and more. Ophyd is coupled with searchable back-end storage and retrieval components, which together form an end-to-end data management architecture for the NSLS-II. An overview of Ophyd's architecture and its accompanying data management infrastructure will be discussed.

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