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Bluesky at the Advanced Photon Source

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In a few short months from now, the Advanced Photon Source Upgrade will begin a complete reconstruction and upgrade of the storage ring. The upgrade involves a long dark period where no experiments will be possible. Significant changes will be made to many beam lines. This dark time offers the APS a major interval in which to retool the beam experiment controls with advancements not possible during regular operations and maintenance periods.

Developed to coordinate the complete scientific data life cycle, from measurement through analysis, Bluesky has been adopted at the Advanced Photon Source as the software framework for user interface. Bluesky is written with Python, leveraging the existing collection of packages and shared experience. Bluesky was created for initial operations at NSLS-II and has since been adopted by other scientific user facilities across the US and now enjoys an international collaboration.

This presentation will describe how the APS will be using Bluesky, on top of its existing EPICS controls, to orchestrate the next generation of data science.

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