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Progress Report for the Advanced Photon Source Upgrade Project

The Advanced Photon Source (APS) is a third generation synchrotron X-ray facility located at Argonne National Laboratory that has been in operation since 1996. Over the next few years, the APS will undergo an extensive upgrade that will replace the current electron storage ring with a new, state-of-the-art machine. The upgraded APS will generate X-rays up to 500 times brighter than those created by the current APS. Assembly and alignment of multiple components for the new machine is underway, and significant progress has been made in preparing the components for installation at the facility. In this presentation we will report the current status of the project and highlight metrology techniques being utilized in the alignment of components and sub-assemblies for the new machine.

Author: JANSMA, William (Argonne National Laboratory)

Co-authors: Mr DOOSE, Charles (ANL); Mr JAIN, Animesh (ANL); Mr JARVIS, Samuel (ANL); Mr NUDELL, Jeremy (ANL)

Presenters: JANSMA, William (Argonne National Laboratory); Mr NUDELL, Jeremy (ANL)

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