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Controls for the Multi-bend acromat APS upgrade

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A controls centric status update concerning the various systems, the R&D and the project plans for the Multi-bend acromat (MBA) upgrade planned for the Argonne photon source. The MBA upgrade will rebuild the current third generation light source storage ring with a new lattice which, among other things will dramatically increase x-ray brightness, will reduce the electron beam emittance from the present value of 3.1 nm to under 100 pm and increase the beam current to 200 mA. To install the new storage ring, the old one will be removed and be replaced with the new one, along with the control system in a nine months window and allow three months to recommission.

Summary

A controls centric status update concerning the various systems, the R&D and the project plans for the Multi-bend acromat (MBA) upgrade planned for the Argonne photon source.

Primary author: Mr FARNSWORTH, Richard (Argonne National Labs)

Presenter: Mr FARNSWORTH, Richard (Argonne National Labs)

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