Contribution ID: **1303** Contribution code: **WEPL006** Type: **Poster Presentation**

Improvements to the commissioning simulations of the APS Upgrade storage ring

Wednesday, 10 May 2023 16:30 (2 hours)

The commissioning of the APS Upgrade storage ring will need to be completed fast in order to minimize the dark time for APS users. To help speed up commissioning, lattice commissioning simulations were developed that allow to test commissioning algorithms and automate the entire process. In this paper, we describe recent improvements and additions to the commissioning simulations. We cover the addition of the transfer line commissioning, handling of larger than expected errors, use of survey results in the first-turn trajectory correction, and discuss lattice correction results.

Funding Agency

Work supported by the U.S. Department of Energy, Office of Science, Office of Basic Energy Sciences, under Contract No. DE-AC02-06CH11357.

Footnotes

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Session Classification: Wednesday Poster Session

Track Classification: MC5: Beam Dynamics and EM Fields: MC5.D01: Beam Optics Lattices, Correction Schemes, Transport