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First results of automated startup and commissioning procedures at the Advanced Light Source

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Rapid commissioning and automated start up procedures are crucial for many upcoming 4th generation storage ring light sources as their downtime demands are very challenging given their increased operational complexity. Detailed commissioning simulations as a tool of error analysis are not only used to guide the design process of new machines but also a prerequisite to implement an automated commissioning and start up procedure for the final machine. The current ALS can be used effectively to test the developed automated commissioning procedures for the ALS Upgrade because the lattice is very similar to the ALS-U Accumulator Ring, of which detailed commission simulations have been carried out. In this study we present first results including first turn beam threading and turn by turn beam based alignment procedures.

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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