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Crystal shadowing in the slow extraction at 8 GeV

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Crystal shadowing is a very promising technique for improving the Slow Extraction efficiency that has been successfully demonstrated at CERN with 400GeV proton beams. It remains to be demonstrated at low energies, where it has both new challenges and advantages. The beam studies for crystal shadowing are under preparations at the Fermilab Delivery Ring, which is being commissioned for the 8GeV proton beam Slow Extraction for the Mu2e experiment. The beam tracking numerical simulations show good potential for significant reduction of the beam losses. In this contribution we will discuss both the simulations results and the experimental plans.

Footnotes

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