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ID: 4252 Wedge Absorber Design and Engineering for MICE Step IV

Presenter Pavel Snopok (IIT, Chicago, Illinois)

Authors Pavel Snopok (IIT, Chicago, Illinois), Chris Rogers (STFC/RAL/ASTeC, Chilton, Didcot, Oxon), Linda Coney (UCR, Riverside, California)

Abstract In the Muon Ionization Cooling Experiment (MICE), muons are cooled by passing through material, then through RF cavities to compensate for the energy loss; which reduces the transverse emittance. It is planned to demonstrate longitudinal emittance reduction via emittance exchange in MICE by using a solid wedge absorber in Step IV. We address here simulation efforts for a LiH absorber as well as engineering considerations in connection with the absorber support design and testing.

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