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Results from Mice Step IV

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Muon beams of low emittance provide the basis for the intense, well characterised neutrino beams of the Neutrino Factory and for leptonantilepton collisions at energies of up to several TeV at a Muon Collider. The international Muon Ionization Cooling Experiment (MICE) will demonstrate ionization cooling the technique by which it is proposed to reduce the phasespace volume occupied by the muon beam. MICE is being constructed in a series of Steps. The configuration currently in operation at the Rutherford Appleton Laboratory is optimised for the study the properties of liquid hydrogen and lithium hydride that affect cooling. The data taken in the present configuration have been partially analyzed and the available results will be described in detail.

Experimental Collaboration

MICE (Muon Ionization Cooling Experiment)

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