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Simulations of the University of Notre Dame Multi-Reflection Time-of-Flight Spectrograph

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A multi-reflection time-of-flight mass spectrograph (MR-ToF) is currently being designed for the future University of Notre Dame radioactive ion beam facility. This device will be used to provide isobarically pure ion bunches to experiments. We are currently designing an off-line testing setup for the MR-ToF. To characterize and optimize the MR-ToF, and to guide the design, we performed the series of simulations that will be presented.

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