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Development of a new RF cooler buncher for the CRIS experiment

Wednesday 7 December 2016 19:45 (10 minutes)

This poster will present the development of a new radio-frequency cooler buncher (RFCB) design for the collinear resonance ionisation spectroscopy (CRIS) experiment. A RFCB at CRIS would provide numerous benefits including the replication of online conditions during offline testing and would act as a beam energy reset; allowing CRIS to remain in a fixed setup. Due to spatial restrictions, a novel RFCB design based on an RF ion funnel has been constructed. This design has been developed using SIMION simulations, the results of which indicate that this could be a more compact option for a RFCB at CRIS.

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