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Results of the upgraded Neutralized Drift Compression Experiment[1] STEVEN M. LIDIA, F.M. BIENIOSEK, Lawrence Berkeley National Laboratory, E.P. GILSON, Princeton Plasma Physics Laboratory, P.K. ROY, P. NI, P.A. SEIDL, K. VAN DEN BOGERT, W.L. WALDRON, Lawrence Berkeley National Laboratory — Recent changes to the NDCX beamline offer the promise of higher current compressed bunches, with correspondingly greater fluence delivered to the target plane for ion-beam driven warm dense matter experiments. We report modeling and commissioning results of the upgraded NDCX beamline that includes a new induction bunching module with approximately twice the volt-seconds and greater tuning flexibility, combined with a longer neutralized drift compression channel.

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