Lawrence Berkeley National Laboratory

Recent Work

Title

Results of the upgraded Neutralized Drift Compression Experiment

Permalink

https://escholarship.org/uc/item/2p06x3rr

Authors

LIDIA, STEVEN M.
BIENIOSEK, F.M.
GILSON, E.P.
et al.

Publication Date

2009-12-07

eScholarship.org Powered by the California Digital Library
University of California

DPP09-2009-001676

Abstract Submitted
for the DPP09 Meeting of
The American Physical Society

Sorting Category: 2.1.0 (E)

Results of the upgraded Neutralized Drift Compression Experiment[1] STEVEN M. LIDIA[2], 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.

[1]This work was supported by the Director, Office of Science, Office of Fusion Energy Sciences, of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231.
[2]pleasae place next to poster by Peter Seidl

☐ Prefer Oral Session
☒ Prefer Poster Session

Peter Seidl
paseidl@lbl.gov
Lawrence Berkeley National Laboratory

Special instructions: Please locate near poster by Peter Seidl

Date submitted: 17 Jul 2009 Electronic form version 1.4