Abstract Submitted
for the DNP13 Meeting of
The American Physical Society

Recent Activities at the Low-Energy Beam and Ion Trap Facility at NSCL[1] SCOTT BUSTABAD, GEORG BOLLEN, Dept. of Physics and NSCL, Michigan State University, East Lansing, MI 48824, USA, MAXIME BRODEUR, Dept. of Physics, University of Notre Dame, Notre Dame, IN 46556, USA, DAVID LINCOLN, SAMUEL NOVARIO, Dept. of Physics and NSCL, Michigan State University, East Lansing, MI 48824, USA, MATTHEW REDSHAW, NSCL and Dept. of Physics, Central Michigan University, Mount Pleasant, MI 48859, USA, RYAN RINGLE, STEFAN SCHWARZ, NSCL, Michigan State University, East Lansing, MI 48824, USA, ADRIAN VALVERDE, Dept. of Physics and NSCL, Michigan State University, East Lansing, MI 48824, USA — The Low-Energy Beam and Ion Trap (LEBIT) facility, for high precision Penning trap mass measurements, has been relocated and upgraded for the expansion of the thermalized beam program at NSCL. I will summarize the changes to the facility and will focus on recent atomic mass measurements of candidates for neutrinoless double-β decay experiments including ^{82}Se and ^{48}Ca. I will also present the first results from the recent successful LEBIT commissioning experiment and will conclude by discussing the exciting future opportunities with the upgraded facility.

[1]This work was supported by Michigan State University, the National Science Foundation under Contract No. PHY-1102511, and the Office of Science US Dept of Energy under Grant 03ER-41268

Scott Bustabad
Dept. of Physics and NSCL, Michigan State University,
East Lansing, MI 48824, USA

Date submitted: 01 Jul 2013 Electronic form version 1.4