Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

Finite Difference Time Evolution of the Quantum Wigner Function in the Presence of a Magnetic Field TIMOTHY BERGSTRESSER, TOMAS MATERDEY, University of Massachusetts Boston — Numerical results from the finite-difference solution of a quantum Vlasov equation that governs the dynamics of the Wigner function in the presence of a magnetic field will be presented. Effects of absorbing boundary conditions in phase space and use of higher order finite-difference approximations will be discussed.

Tomas Materdey
University of Massachusetts Boston

Date submitted: 30 Nov 2008 Electronic form version 1.4