

Collisionality Effects on Electron Cyclotron Current Drive Efficiency

Y.R. Lin-Liu,* V.S. Chan, F.L. Hinton, and S.K. Wong

General Atomics, P.O. Box 85608, San Diego, California 82186-5608, U.S.A.

**Present Address: Department of Physics, National Dong Hwa University, Taiwan*

Abstract: Lorentz gas model is used to examine collisionality modification of the trapped electron effects on electron cyclotron current drive efficiency. Appreciable collisionality enhancement of the current drive efficiency appears to be possible in the strong trapping cases in present-day current drive experiments.