Ray tracing of Electron Bernstein Waves in 2D for C-2 Equilibrium

E. TRASK, Tri Alpha Energy, J. KRUSZELNICKI, University of Florida, R.W. HARVEY, YU. PETROV, CompX, TAE TEAM — Ray propagation in the electron cyclotron range of frequencies (ECRF) has been studied for simulated two dimensional equilibria on the C-2 device [1]. Studies have been performed using the Genray ray tracing code, with modifications to allow ray trajectories on open magnetic flux surfaces. Primary studies are focused on Electron Bernstein Wave (EBW) coupling mechanisms to study the potential for microwave heating of Field Reversed Configurations (FRC).