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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**).

[1] M. Tuszewski et al., Phys. Rev. Lett. 108, 255008 (2012)

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