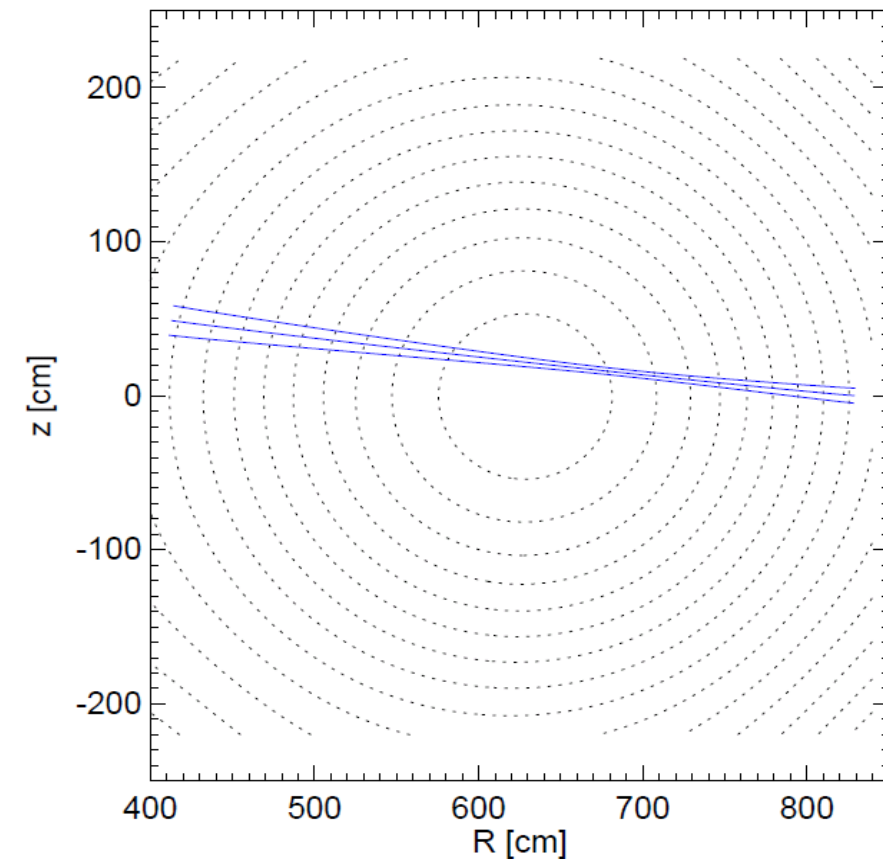


TORBEAM for ITM

Emanuele Poli

ITM General Meeting, Garching, Sept. 12-16, 2011

- TORBEAM is a **beam tracing code** for Electron-Cyclotron waves
- Propagation retains diffraction through paraxial expansion, linear model for absorption, adjoint method for current drive including momentum conservation (N. Marushchenko; first benchmarks passed)
- Fast version (runtime < 30 ms) for real-time applications under implementation in the AUG control loop (M. Reich)



TORBEAM: ITM Status



- TORBEAM **runs under Kepler** for UAL 4.08b (output cpo changed correspondingly: from coreprof to waves)
- Tested in Thomas's workflow (switch with GRAY)
- Part of the input still supplied as namelist
- ITM benchmark with other EC codes under way

