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Simulations of lower-hybrid coupling in the Madison Symmetric Torus JOHAN CARLSSON[1], DAVID SMITHE, Tech-X Corporation, MARK CARTER, Oak Ridge National Laboratory, MIKE KAUFMAN, University of Wisconsin-Madison — Simulations of Lower Hybrid (LH) coupling in the Madison Symmetric Torus (MST) Reversed Field Pinch (RFP) will be presented. Due to the special requirements of the RFP configuration (tight-fitting conducting shell in which only minimal portholes are acceptable), an unusual interdigital line slow-wave antenna is used, mounted below the mid plane on the inboard side. A number of codes are used, including VORPAL, RANT3D/AORSA1D-H and MWS, each solving different equations and using different algorithms. Output from the different codes will be presented and compared to verify the simulation results.

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