

Abstract Submitted
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Simulation Support of the T4B Experiment GABRIEL FONT, TOM MCGUIRE, AARON SCHINDER, ARTAN QERUSHI, Lockheed Martin — The Lockheed Martin Compact Fusion Reactor concept utilizes magnetic cusps to confine plasma. Simulations are carried out in support of the T4B experiment. Grad-Shafranov simulations are used to explore equilibrium stability. PIC simulations are conducted to understand the evolution of particle distribution functions, neutral beam heating efficiency and plasma confinement. Zero-Dimensional models are used to predict plasma evolution. Finally, collision radiative models are used to determine plasma density and temperature. ©2019 Lockheed Martin Corporation. All Rights Reserved.

Gabriel Font
Lockheed Martin

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