

Abstract Submitted  
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**Electron and ion temperature profiles during merging of two FRC plasmas** FENTON GLASS, Tri Alpha Energy, Inc., DEEPAK GUPTA, SEAN DETTRICK, BIHE DENG, EUSEBIO GARATE, MICHEL TUSZEWSKI, TAE TEAM — Plasma temperature profiles are measured in the C-2 field reversed configuration (FRC) experiment during the coaxial merging of two FRCs plasmas. Electron temperatures are measured using a nine spatial point Thomson scattering system and ion temperature profiles are estimated from multi-chord ion Doppler spectroscopy. Results are used to refine MHD simulations performed using the LamyRidge code.

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