

Abstract Submitted  
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**ICRF Heating for SPARC**<sup>1</sup> J.C. WRIGHT, Y. LIN, S.J. WUKITCH, P. RODRIGUEZ-FERNANDEZ, A.H. SELTZMAN, Massachusetts Institute of Technology MIT, SPARC TEAM — SPARC is designed to have a 25 MW coupled ICRF system as its sole proposed auxiliary heating method. SPARC RF scenarios are based on the successes of Alcator C-Mod as well as the TFTR and JET programs during their D-T operation. Among heating methods, ICRF is the only proven method that can effectively heat high density and high field plasmas in SPARC for both the pre-D-T and D-T operations. The single-pass-absorption for D-T-(<sup>3</sup>He) burning plasma combining 2<sup>nd</sup> harmonic T heating and minority <sup>3</sup>He heating will be greater than 90

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