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Category Number and Subject: 5.6.2 DIII-D Tokamak

[ ] Theory [x] Experiment

Dependence of Divertor Baffle Heating During QH Mode in DIII-D,* C.J. Lasnier, *LLNL*, W.P. West, K.H. Burrell, J.S. deGrassie, *GA*, E.J. Doyle, *UCLA*, J.G. Watkins, *SNL* – We found previously that the upper outer baffle of DIII-D was receiving an amount of heat comparable to the outer strike point during QH mode in upper-single-null discharges [1]. Here we investigate the dependence of this heat flux on variations in plasma current, distance between the separatrix and outer wall or floor, up-down magnetic balance in double-null, injected neutral beam power, and ratio of more tangential to less-tangential beams. We use these results to test the hypothesis that the baffle heating is due to ions on large banana orbits.

[1] C.J. Lasnier, et al., J. Nucl. Mater. **313-316**, 904 (2003).

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