Initial Wall Conditioning and Impurity Control Techniques in NSTX*

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The National Spherical Torus Experiment (NSTX) is a newly commissioned spherical torus (R≤0.85m, a≤ 0.64m, R/a>1.25, B_t ~ 0.3 T, I_p ≤ 1 MA) which began operation in Feb. 1999. Initial runs have focused on exploring the operational limits of the device (e.g. in plasma current, shape, density, safety factor), as well as exploring the physics of higmmm 329%ion