

C. Chen, R. Pakter, and C. Seward, "Equilibrium and Stability Properties of Self-Organized Electron Spiral Toroids," *Physics of Plasmas*, Vol. 8, 2001, pp. 4441-4450

It is found that a class of self-organized EST equilibria exists with or without an externally applied toroidal magnetic field. It is shown that in the absence of any applied toroidal magnetic field, the EST equilibria are stable at high electron densities i.e., at high toroidal self-magnetic fields, although they are unstable at low electron densities i.e., at low toroidal self-magnetic fields.