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Coisotropic Luttinger surgery.

We introduce a surgery operation on symplectic manifolds called coisotropic Luttinger surgery, which generalizes Luttinger surgery on Lagrangian tori in symplectic 4-manifolds. We use it to produce infinitely many distinct symplectic non-Kähler 6-manifolds X with $c_1(X) = 0$ which are not of the form $M \times F$ for M a symplectic 4-manifold and F a closed surface. (Received June 15, 2011)