

1104-57-49

Jennifer Hom, Cagri Karakurt and Tye Lidman* (tlid@math.utexas.edu). *Surgery obstructions and Heegaard Floer homology.*

Using Taubes' periodic ends theorem, Auckly gave examples of toroidal and hyperbolic irreducible integer homology spheres which are not surgery on a knot in the three-sphere. We give an obstruction to a homology sphere being surgery on a knot coming from Heegaard Floer homology. This is used to construct infinitely many small Seifert fibered examples. (Received August 12, 2014)