

1086-57-1678

Liam Watson*, lwatson@math.ucla.edu. *Heegaard Floer homology solid tori*. Preliminary report.

This talk is an attempt to treat and provide context for the following question: what are the simplest bordered Heegaard Floer invariants? We will focus on the case of manifolds with torus boundary and, by analogy with Heegaard Floer homology lens spaces – known as L-spaces – for closed three manifolds, introduce the notion of a Heegaard Floer homology solid torus. These manifolds satisfy a type of Alexander trick at the level of Heegaard Floer homology; the goal of the talk will be to make this precise. We will give some explicit examples and discuss some applications and related questions. (Received September 24, 2012)