

1015-57-132

Stanislav Jabuka* (jabuka@unr.edu), Department of Mathematics and Statistics, 084, University of Nevada Reno, Reno, NV 89557, and **Thomas Mark** (thomas.mark@selu.edu), Department of Mathematics, 308 Fayard Hall, 1205 North Oak Street, Southeastern Louisiana University, Hammond, LA 70402. *Heegaard Floer homology of a surface times a circle.*

The talk will outline an algorithm for calculating the twisted Heegaard Floer homology groups of a three manifold obtained by zero surgery on a knot. The input for these calculations are the knot Floer groups and surgery long exact sequences.

As an illustration, we work out in detail the case of a surface times a circle. This example is of special interest as it is a vital ingredient in deriving product formulae for the 4-dimensional Ozsvth-Szab invariants (discussed in a follow-up talk by Tom Mark). (Received February 01, 2006)