

Sašo Strle*, *University of Ljubljana, Slovenia*

Knot concordance and Heegaard Floer homology

By studying the Heegaard Floer homology of the preimage of a knot K in S^3 inside its double branched cover, we develop simple obstructions to K having finite order in the classical smooth concordance group. The obstructions are sums of certain τ - or d -invariants of the branch set in the branched cover. We will describe the relevant background and discuss some examples.

*This is a joint work with J. Elisenda Grigsby and Daniel Ruberman