

HEEGAARD FLOER HOMOLOGY IN LOW-DIMENSIONAL TOPOLOGY

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Abstract:

We study Heegaard Floer homology in low-dimensional topology. In particular, we focus on areas such as contact topology, knot theory and open book decomposition of 3-manifold. We establish a relationship between the Upsilon invariant of fibered knot and its monodromy. We give a combinatorial description of the Legendrian and transverse LOSS invariant. Hubbard, Kawamuro and others ask the question if the monodromy of a hyperbolic slice fibered knot is neither right-veering nor left-veering. We construct a counter-example.