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Computing Knot Floer homology

Knot Floer homology is an invariant for knots in the three-sphere, defined using methods from symplectic goemetry (pseudo-holomorphic curves). Bordered Floer homology is an algebraic approach for counting pseudo-holomorphic curves, introduced in joint work with Robert Lipshitz and Dylan Thurston, originally to study a related three-manifold invariant (Heegaard Floer homology). In this talk, I will present joint work with Zoltan Szabo, in which bordered techniques are used to give efficient computations of knot Floer homology.