

An infinite rank summand of topologically slice knots

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Knots in S^3 , under connected sum, form a monoid, and modulo concordance, this monoid can be made into an abelian group, called the knot concordance group. Let T denote the subgroup of the smooth knot concordance group generated by topologically slice knots. Endo showed that T contains an infinite rank subgroup, and Livingston and Manolescu-Owens showed that T contains a rank 3 summand. We show that in fact T contains an infinite rank summand. The proof relies on the knot Floer homology package of Ozsvath-Szabo and the concordance invariant ϵ .