

1037-57-6

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Baton Rouge, LA 70803. *Surgery description of colored knots.*

The pair  $(K,r)$  consisting of a knot  $K$  and a surjective map  $r$  from the knot group onto a dihedral group is said to be a  $p$ -colored knot. Moskovich conjectured that for any odd prime  $p$  there are exactly  $p$  equivalence classes of  $p$ -colored knots up to surgery along unknots in the kernel of the coloring. We show that there are at most  $2p$  equivalence

classes. This is a vast improvement upon the previous results by Moskovich for  $p=3$ , and  $5$ , with no upper bound given in general. T. Cochran, A. Gerges, and K. Orr, in “Dehn surgery equivalence relations of 3-manifolds”, define invariants of the surgery equivalence class of a closed 3-manifold  $M$  in the context of bordisms. By taking  $M$  to be 0-framed surgery of the 3- sphere along  $K$  we may define Moskovich’s colored untying invariant in the same way as the Cochran-Gerges-Orr invariants. This bordism definition of the colored untying invariant will be then used to establish the upper

bound. (Received September 28, 2007)