

1123-57-22

Jennifer Hom, Adam Simon Levine and Tye Lidman* (tlid@math.ncsu.edu). *Concordance and homology spheres.*

Although not every knot in the three-sphere can bound a smooth disk in the four-ball, it must bound a PL disk. This is not true for knots in the boundaries of arbitrary smooth contractible manifolds. We give new examples of knots in homology spheres that cannot bound PL disks in any bounding homology ball and thus not concordant to knots in the three-sphere. (Received July 27, 2016)