Annulus twist and diffeomorphic 4-manifolds II

In Dae Jong

Kinki University

Abstract. We show that for any integer $n$, there exist infinitely many mutually distinct knots such that 2-handle additions along them with framing $n$ yield the same 4-manifold. As a corollary, we obtain the affirmative answer to a problem in Kirby’s list (Problem 3.6 (D)). We also explain a relation between our result and the cabling conjecture. This is a joint work with Tetsuya Abe.