

1123-57-354

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Knotted handlebodies and knots with a half-integral toroidal surgery. Preliminary report.

Many years ago I gave a construction of an infinite family of hyperbolic knots, denoted $k(l, m, n, p)$, which have a half-integral toroidal surgery. The construction was made by using tangles and double branched covers. Later, Gordon and Luecke showed that this family contains all knots with a half-integral toroidal surgery. Recently, Koda and Ozawa have given a description of all genus two knotted handlebodies which contain an essential annulus or Möbius band in their exteriors; one of families described come from the knots $k(l, m, n, p)$. Now, we give an explicit construction of such knotted handlebodies, and then an explicit construction of the knots $k(l, m, n, p)$. (Received August 30, 2016)