Unknotting numbers of torus-covering knots

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Abstract. A torus-covering knot is an oriented surface knot which is in the form of a covering over the standard torus. The unknotting number of an oriented surface knot F is the minimal number of disjoint 1-handles necessary to deform F to an unknotted surface knot by 1-handle surgery. In this talk we study unknotting numbers of torus-covering knots. In particular, we give examples of torus-covering knots with the unknotting number exactly n.