

H(2)-unknotting number of a knot

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Abstract. This is a joint work with Yasuyuki Miyazawa. An $H(2)$ -move is a local move of a knot which is performed by adding a half-twisted band. It is known an $H(2)$ -move is an unknotting operation. We define the $H(2)$ -unknotting number of a knot K to be the minimum number of $H(2)$ -moves needed to transform K into a trivial knot. We give several methods to estimate the $H(2)$ -unknotting number of a knot.