

Lectures on topology of words

Vladimir Turaev

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Abstract. We discuss a topological approach to words introduced by the author in [Tu2]–[Tu4]. Words on an arbitrary alphabet are approximated by Gauss words and then studied up to natural modifications inspired by the Reidemeister moves on knot diagrams. This leads us to a notion of homotopy for words. We introduce several homotopy invariants of words and give a homotopy classification of words of length five.

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V. TURAEV

IRMA, Université Louis Pasteur - C.N.R.S., 7 rue René Descartes, F-67084 Strasbourg, France
(e-mail: turaev@math.u-strasbg.fr)