

String links and classification of links up to link-homotopy

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Abstract

I shall discuss classification of links up to link-homotopy as solved in 1990 by Nathan Habegger and Xiao-Song Lin.

The main tool in classification was a group of link-homotopy classes of string links - $H(k)$. Since then $H(k)$ itself became an object of interest in low-dimensional topology. If time permits, I shall discuss $H(k)$ as an example of orderable groups appearing in topology.