



LOCAL REPRESENTATIONS OF BRAID GROUP AND ITS GENERALIZATIONS

YULIYA A. MIKHALCHISHINA

The linear representations of braid group B_n as well as those of virtual braid group VB_n , welded braid group WB_n and singular braid group SB_n are under investigation.

The local linear representations as well as the local homogeneous representations of braid group B_n , $n \geq 2$ were constructed. It is proved that all these representations are in some sense equivalent to the Burau representation.

Using the Wada representations of B_n in the automorphism group $\text{Aut}(F_n)$ of a free group the linear representations of B_n are constructed.

There were constructed the local homogeneous representations of virtual braid group VB_n and the ones of welded braid group WB_n . There were also constructed the local representations of singular braid group SB_n .

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SOBOLEV INSTITUTE OF MATHEMATICS, NOVOSIBIRSK, RUSSIA

E-mail address: mikhailchishina@math.nsc.ru