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Title:	On the lower central series of some virtual knot groups
Authors:	Nanda, N. (/jspui/browse?type=author&value=Nanda%2C+N.)
Keywords:	Knot group Representation Virtual braid group Virtual knot Residually nilpotent group
Issue Date:	2020
Publisher:	World Scientific
Citation:	Journal of Knot Theory and its Ramifications, 29(9)
Abstract:	We study groups of some virtual knots with small number of crossings and prove that there is a virtual knot with long lower central series which, in particular, implies that there is a virtual knot with residually nilpotent group. This gives a possibility to construct invariants of virtual knots using quotients by terms of the lower central series of knot groups. Also, we study decomposition of virtual knot groups as semi direct product and free product with amalgamation. In particular, we prove that the groups of some virtual knots are extensions of finitely generated free groups by infinite cyclic groups.
Description:	Only IISERM authors are available in the record.
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