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Title:	Commutator subgroups of welded braid groups
Authors:	Dey, Soumya (/jspui/browse?type=author&value=Dey%2C+Soumya) Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Keywords:	Welded braids Flat virtual braids Flat welded braids Adorability
Issue Date:	2018
Publisher:	Elsevier B.V.
Citation:	Topology and its Applications, 237, pp. 7-20
Abstract:	Let WB_n be the welded (or loop) braid group on n strands, n≥3. We investigate commutator subgroup of WB_n, WB_n'. We prove that WB_n' is finitely generated and Hopfian. We show that WB_n' is perfect if and only if n≥5. We also compute finite presentation for FWB_n', the commutator subgroup of the flat welded braid group FWB_n. Along the way, we investigate adorability of these groups.
URI:	https://www.sciencedirect.com/science/article/pii/S0166864118300221 (https://www.sciencedirect.com/science/article/pii/S0166864118300221) http://hdl.handle.net/123456789/2103 (http://hdl.handle.net/123456789/2103)
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