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Title:	Narain Gupta's three normal subgroup problem and group homology
Authors:	Mikhailov, R. (/jspui/browse?type=author&value=Mikhailov%2C+R.) Passi, I.B.S. (/jspui/browse?type=author&value=Passi%2C+I.B.S.)
Keywords:	Group ring Homology of groups Derived functors of non-additive functors Free group ring
Issue Date:	2019
Publisher:	Elsevier
Citation:	Journal of Algebra, 526,pp.243-265.
Abstract:	This paper is about application of various homological methods to classical problems in the theory of group rings. It is shown that the third homology of groups plays a key role in Narain Gupta's three normal subgroup problem. Fo r a free group Fand its normal subgroups R, S, T, and the corresponding ideals in the integral group ring Z[F], $r = (R-1)Z[F]$, $s = (S-1)Z[F]$, $t = (T-1)Z[F]$, acomplete description of the normal subgroup F \cap (1 +rst)is given, provided R \subseteq Tand the third, fourth and fifth homology groups of R/R \cap Sare torsion groups.
URI:	https://www.sciencedirect.com/science/article/pii/S0021869319300900 (https://www.sciencedirect.com/science/article/pii/S0021869319300900) http://hdl.handle.net/123456789/2030 (http://hdl.handle.net/123456789/2030)
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