Non-abelian tensor square of groups: a commutator approach

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Abstract. Let G be a group. We denote by $\nu(G)$ a certain extension of the non-abelian tensor square $G \otimes G$ by $G \times G$. This construction is due to N. R. Rocco [4]. In the talk we will discuss some recent progress and questions concerning these constructions [1, 2, 3]. The main idea involves the study of structural results of the non-abelian tensor square (and related construction) in terms of the commutators $\Gamma(\nu(G)) = \{[\alpha, \beta] \mid \alpha, \beta \in \nu(G)\}$.

References

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