

Classifying generating sets of free abelianized extensions of finite groups

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ABSTRACT

Given a d -generator group G and an integer $n \geq d$ there are, in general, many n -element generating sets of G . Probably the most natural way to classify these generating sets is by collecting them into the Nielsen Equivalence Classes of G on n -generators. Unfortunately such a classification is usually quite difficult in practice. In this talk we'll obtain a classification of generating sets for free abelianized extensions of certain finite groups H in terms of the Whitehead groups $\text{Wh}(\mathbb{Z}H) := K_1(\mathbb{Z}H)/\pm H$.

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