

On $(2, 3)$ -generated groups

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A $(2, 3)$ -generated group is a group that can be generated by an involution and an element of order 3. The interest in these groups is explained by the well known fact that the quotients of the modular group $\mathrm{PSL}_2(\mathbb{Z})$ (except the three “degenerate” cases $\{1\}$, C_2 , C_3) are precisely the $(2, 3)$ -generated groups.

In my talk I shall survey recent results in that field including

- explicit constructions of $(2, 3)$ -generators for various matrix groups,
- new additions to the list of non- $(2, 3)$ -generated finite simple groups.