

Twisted conjugacy in Chevalley groups

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Let G be a group and $\phi : G \rightarrow G$ be an automorphism. We say that $g, h \in G$ are ϕ -conjugate if $g = ah\phi(a)^{-1}$ for some $a \in G$. It is of interest to know if, for a given (infinite) group G , the number of equivalence classes under ϕ -conjugacy is infinity for every automorphism ϕ of G . We discuss this for various Chevalley groups. A part of this talk is based on the recent work with Dr Mitra ([1]).

References

- [1] Shripad M. Garge, Oorna Mitra *Twisted conjugacy in classical Chevalley groups*. J. of Algebra, 606 (2022), 877-893.

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