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0.1 The group commutator

The group commutator is:

$$[a, b] = a^{-1}b^{-1}ab$$

If the group is abelian then $[a, b] = 0$. The group commutator is a measure of how non-abelian the group is.

This has the following properties:

Alternativity: $[A, A] = I$