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Double groups are an ad hoc invention of the physicist Hans Bethe who was attempting to distinguish 2π rotations from null rotations for finite rotation groups. Bethe essentially doubled the number of elements in the finite rotation group and defined a compatible group operation to make the double group well-defined.

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The quaternions i, j, k , and 1 form a non-Abelian Group of order eight (with multiplication as the group operation) known as Q_8 . The quaternions can be written in the form $a + bi + cj + dk$ (19)

Quaternion

Geometry of 4D rotations. Four-dimensional rotations are of two types: simple rotations and double rotations. Simple rotations. A simple rotation R about a rotation centre O leaves an entire plane A through O (axis-plane) fixed. Every plane B that is completely orthogonal to A intersects A in a certain point P . Each such point P is the centre of the 2D rotation induced by R in B .

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