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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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S.L. Altmann [3] Quaternions and the heuristic role of
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Τετραδόνιο - Βικιπαίδεια

The real quaternions algebra was invented by W.R. Hamilton as an extension to the complex numbers. In this paper, we study various kinds of quaternions and investigate some of basic algebraic properties and geometric applications of them.

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