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Double groups are an ad hoc invention of the physicist Hans Bethe who was attempting to distinguish 2ⁿ 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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Quaternions have applications in computer graphics, computer vision, robotics, navigation, molecular dynamics, flight dynamics, orbital mechanics of satellites and crystallographic texture analysis. When used to represent rotation, unit quaternions are also called rotation quaternions as they represent the 3D rotation group.

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