

A new eigenvalue-based classification of Lorentz transformations

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Abstract

We propose a new classification for Lorentz transformations, relying on three real parameters and two mutually orthonormal vectors. Lorentz transformations can then be mapped to the movement of a rigid body inside the space defined by the three parameters. We show the usefulness of the classification, in that special subclasses of transformations, which are not limited to boosts and rotations, correspond to the eigenvalues of the Lorentz transformations taking the special values ± 1 . Based on the metric preserving properties of the Lorentz transformations, we reduce the quartic equation for its eigenvalues to a sequence of two quadratic equations, yielding the four eigenvalues. The eigenvalue-based classification is shown to hold for any symmetric metric with the same signature as the Minkowski metric.

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