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lorentz group wikipedia

basic properties the lorentz group is a subgroup of the poincaré group the group of all isometries of minkowski spacetime lorentz transformations are precisely isometries that leave the origin fixed thus the lorentz group is an isotropy subgroup of the isometry group of minkowski spacetime for this reason the lorentz group is sometimes called the

spherical harmonics wikipedia

an exception are the spin representation of $so(3)$ strictly speaking these are representations of the double cover $su(2)$ of $so(3)$ in turn $su(2)$ is identified with the group of unit quaternions and so coincides with the 3 sphere the spaces of spherical harmonics on the 3 sphere are certain spin representations of $so(3)$ with respect to the

quaternions and spatial rotation wikipedia

unit quaternions known as versors provide a convenient mathematical notation for representing spatial orientations and rotations of elements in three dimensional space specifically they encode information about an axis angle rotation about an arbitrary axis rotation and orientation

quaternions have applications in computer graphics computer vision robotics navigation

tensor wikipedia

an elementary example of a mapping describable as a tensor is the dot product which maps two vectors to a scalar a more complex example is the cauchy stress tensor t which takes a directional unit vector v as input and maps it to the stress vector $t \cdot v$ which is the force per unit area exerted by material on the negative side of the plane orthogonal to v against the material

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clifford algebra wikipedia

in mathematics a clifford algebra is an algebra generated by a vector space with a quadratic form and is a unital associative algebra as k algebras they generalize the real numbers complex numbers quaternions and several other hypercomplex number systems the theory of clifford algebras is intimately connected with the theory of quadratic forms and orthogonal

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quaternion from wolfram mathworld

the quaternions are members of a noncommutative division algebra first invented by william rowan hamilton the idea for quaternions occurred to him while he was walking along the royal canal on his way to a meeting of the irish academy and hamilton was so pleased with his discovery that he scratched the fundamental formula of quaternion algebra $i^2 = j^2 = k^2 = ijk$

spinor wikipedia

1 corresponds to a vector rotation through an angle θ about an axis defined by a unit vector $v = \sigma_1 a + \sigma_2 b + \sigma_3 c$ as a special case it is easy to see that if $v = \sigma_3$ this reproduces the $\sigma_1 \sigma_2$ rotation considered in the previous section and that such rotation leaves the coefficients of vectors in the σ_3 direction invariant since $\cos \theta + i \sigma_3 \sin$

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movimiento de rotación wikipedia la enciclopedia libre

rotación infinitesimal en una rotación en un ángulo infinitesimal $\delta\theta$ se puede tomar $\cos \delta\theta \approx 1$ y $\sin \delta\theta \approx \delta\theta$ de modo que la expresión de la rotación plana pasa a ser si se componen dos rotaciones infinitesimales y por ello se descartan los términos de orden superior al primero se comprueba que poseen la propiedad conmutativa que no tienen las rotaciones

rotations in 4 dimensional euclidean space wikipedia

geometry of 4d rotations four dimensional rotations are of two types

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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

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lie group wikipedia

in mathematics a lie group pronounced $l i: lee$ is a group that is also a differentiable manifold a manifold is a space that locally resembles euclidean space whereas groups define the abstract concept of a binary operation along with the additional properties it must have to be a group for instance multiplication and the taking of inverses division or equivalently the

linear algebra wikipedia

linear algebra is the branch of mathematics concerning linear equations such as linear maps such as and their representations in vector spaces

and through matrices linear algebra is central to almost all areas of mathematics for instance linear algebra is fundamental in modern presentations of geometry including for defining basic objects such as lines planes

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the applications to mechanical systems with non trivial degrees of freedom and discuss the

matrix mathematics wikipedia

definition a matrix is a rectangular array of numbers or other mathematical objects called the entries of the matrix matrices are subject to standard operations such as addition and multiplication most commonly a matrix over a field f is a rectangular array of elements of f a real matrix and a complex matrix are matrices whose entries are respectively real numbers or