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**Geometric Algebra**

**Geometric Algebra**

**Geometric Algebra in 3D - Fundamentals** In this video, we set up the geometric algebra of three dimensions, called  $G(3)$ . We will see that the introduction of a third ...

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## **Joan Lasenby on Applications of Geometric Algebra in Engineering**

Joan Lasenby - <https://www-sigproc.eng.cam.ac.uk/Main/JL> - is a University Reader in the Signal Processing and ...

**Nicholas Katz: Life Over Finite Fields** Abstract: We will discuss some of Deligne's work and its diophantine applications. This lecture was given at The University of Oslo, ...

**Geometric Algebra - Rotors and Quaternions** In this video, we will take note of the even subalgebra of  $G(3)$ , see that it is isomorphic to the quaternions and, in particular, the set ...

## **JuliaCon 2019 | Geometric algebra in Julia with**

**Grassmann.jl | Michael Reed** The Grassmann.jl package provides tools for doing computations based on multi-linear algebra, differential geometry, and spin ...

## **Geometric Algebra 0**

**Overview of Geometric Algebra by Dr. Jack Hanlon** In Dr. Hanlon's last two brief videos, he introduced you to the concept of **Geometric Algebra** and then gave an introduction to ...

## **Geometric Algebra 1**

**Fantastic Quaternions - Numberphile** Dr James Grime discusses a type of number beyond the complex numbers, and why they are useful.

Extra footage: [https://youtu.be ...](https://youtu.be...)

**Visualizing quaternions (4d numbers) with stereographic projection** How to think about this 4d number system in our 3d space.

Brought to you by you: <http://3b1b.co/quaternion-thanks>

Part 2 ...

## **3D Rotations in General: Rodrigues Rotation Formula and Quaternion Exponentials**

In this video, we will discover how to rotate any vector through any axis by breaking up a vector into a

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parallel part and a ...

**Quaternions Explained Briefly** This is a video I have been wanting to make for some time, in which I discuss what the quaternions are, as mathematical ...

**The Vector Algebra War** There are a wide variety of different vector formalisms currently utilized in engineering and physics. For example, Gibbs' ...

**New Quaternion Math Leads to New Reasons Why Physics Work** This is the talk I will present to the 8th International Conference on **Clifford** Algebras in Campinas, Brazil. The new two limit ...

**Geometric Algebra in 3D - Bivector Addition** In this video, we will look at the algebraic and geometric interpretations of adding bivectors together in  $G(3)$ . We will also ...

**Geometric Algebra in 2D - Fundamentals and Another Look at Complex Numbers** In this video, I introduce some of the concepts of geometric (Clifford) algebra, focusing on two-dimensional space ( $\mathbb{R}^2$ ). We ...

**Geometric Algebra Applications - Kepler Problem (Part 1)** In this video, we will begin our study of the Kepler problem, in which two masses move under an inverse-square law, namely the ...

**Geometric Algebra in 2D - Linear Algebra and Cramer's Rule** In this video, we'll see how systems of linear equations can be solved through the wedge product, no matrices needed. We'll ...

**Geometric Algebra in 3D - The Vector-Bivector Product (Part 1)** After having set up  $G(3)$ , let's now investigate a particular geometric product, namely, the product between vector and ...

**Clifford Algebra** A brief introduction to **Clifford** Algebras and

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their geometrical interpretation.

***Introduction to Geometric (Clifford) Algebra.*** Introduction to Geometric (**Clifford**) algebra. Interpretation of products of unit vectors, rules for reducing products of unit vectors, ...

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