

## Four The Son A Divergent Story

fundamental group of the special orthogonal group  $so(n)$  prove that the manifold  $so(n)$  is connected dimension of  $so(n)$  and its generators mathematics stack exchange lie groups lie algebra of  $so(n)$  mathematics stack exchange homotopy groups  $o(n)$  and  $so(n)$   $\pi_1 m o(n)$   $v s \pi_1 m so(n)$  what is the relationship between  $sl(n)$  and  $so(n)$  why operatorname  $spin(n)$  is the double cover of  $so(n)$  tangent space of lie group  $so(n)$  mathematics stack exchange homotopic type of  $gl(n)$   $sl(n)$  and  $so(n)$  group theory generators of  $so(n)$  mathematics stack exchange [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com) [www.bing.com](http://www.bing.com)

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question what is the fundamental group of the special orthogonal group  $so(n)$   $so(n)$   $2n$  clarification the answer usually given is  $\mathbb{Z}_2$  but i would like to see a proof of that and an

the question really is that simple prove that the manifold  $so(n)$   $gl(n, \mathbb{R})$   $so(n)$   $gl(n, \mathbb{R})$  is connected it is very easy to see that the elements of  $so(n)$   $so(n)$  are in one to one

nov 18 2015 the generators of  $so(n)$   $so(n)$  are pure imaginary antisymmetric  $n \times n$  matrices how can this fact be used to show that the dimension of  $so(n)$   $so(n)$  is  $n(n-1)/2$  i know

apr 24 2017 welcome to the language barrier between physicists and mathematicians physicists prefer to use hermitian operators while mathematicians are not biased towards hermitian operators

oct 3 2017 as pointed out in the comments  $o(n)$   $o(n)$  consists of two connected components which are both diffeomorphic to  $so(n)$   $so(n)$   $\pi_0 o(n) = \mathbb{Z}_2$   $\pi_0 o(n) = \mathbb{Z}_2$   $\pi_0 so(n) = \mathbb{Z}_2$

to add some intuition to this for vectors in  $\mathbb{R}^n$   $sl(n, \mathbb{R})$   $sl(n, \mathbb{R})$  is the space of all the transformations with determinant 1 or in other words all transformations that keep the volume constant this is

dec 16 2024 is called the norm of  $cl_n$  we define the pinor group  $pin(n)$  as the kernel of the homomorphism  $n \rightarrow \mathbb{R}^{1n}$  and the spinor group  $spin(n)$  as  $pin(n)$  that s the all

may 9 2024 francescopolizzi that was easy thanks so the two ways to look at the tangent space are indeed equivalent which can be seen using the construction you showed should that be an

may 14 2016 question consider gl n sl n so n g l n s l n s o n the groups of matrices n n n n with positive determinant determinant 1 1 and orthogonal with positive

aug 1 2024 as a starting point consider the fact that g1 g2 so n are conjugate if and only if they rotate through the same oriented angle so for example g xg yg 1 x g z so 3 so n where

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