

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on May 21, 2025 6:37:20 PM, was last modified on September 1, 2026 11:43:26 PM, and was exported on September 7, 2026 2:50:38 PM.

$SO(3, \mathbb{R})$

- actions
 - $\mathbb{R}^3$, adjoint, coadjoint
 - [2-sphere](#)
- [\$\mathfrak{so}\(3, \mathbb{R}\)\$ -Poisson structure on \$\mathbb{R}^3\$](#)
- Lie algebra
- Quaternions

Current note has 1 direct children and 1 total descendants.

- [squishy](#)
 - SO
 - $SO(3, \mathbb{R})$
 - [\$\mathfrak{so}\(3, \mathbb{R}\)\$ -Poisson structure on \$\mathbb{R}^3\$](#)

And it has 5 siblings.

- [squishy](#)
 - SO
 - $SO(x^2 + y^2 - \sqrt{2}z^2)(\mathbb{Z}[\sqrt{2}])$
 - $SO(2)(\mathbb{R})$
 - $SO^+(2, 2)(\mathbb{R})$
 - $SO(3, \mathbb{R})$
 - $SO(4, \mathbb{R})$