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$$O(n+, \mathbb{R}) \curvearrowright S^n$$

#Wiki/group-action/Lie

Definition. $O(n+, \mathbb{R}) \curvearrowright S^n$

$O(n + 1, \mathbb{R}) \curvearrowright S^n$ is transitive with stabilizer isomorphic to $SO(n, \mathbb{R})$ thus

$$S^n \cong \frac{SO(n + 1, \mathbb{R})}{SO(n, \mathbb{R})}$$

[1]

Current note has 0 direct children and 0 total descendants.

- stretchy.
 - S^n
 - $O(n+, \mathbb{R}) \curvearrowright S^n$

And it has 4 siblings.

- stretchy.
 - S^n
 - $O(n+, \mathbb{R}) \curvearrowright S^n$
 - $U(n, \mathbb{C}) \curvearrowright S^{2n-1}$
 - Lebesgue measure on S^n
 - TS^n

1. https://www-users.cse.umn.edu/~garrett/m/mfms/notes/08_homogeneous.pdf#page=1.40 ↩