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We consider the (homological) rotation vectors for area preserving diffeomorphisms of compact surfaces which are homotopic to the identity. There are two main results. The first is that if 0 is in the interior of the convex hull of the rotation vectors for such a diffeomorphism then f has a fixed point of positive index.

Rotation vectors and fixed points of area preserving ...

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Rotation (mathematics) - Wikipedia

the rotation $\vec{\omega}$ will rotate the vector \vec{r} , changing its direction. The magnitude of $\vec{\omega}$ is ω , the direction is normal to \vec{r} ; by Coriolis theorem, the result is $\dot{\vec{r}} = \vec{\omega} \times \vec{r}$. It is interesting to note that this result is independent of the distance b between the wheel and the axis of rotation for $\vec{\omega}$. This is a consequence of our

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