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point. It can describe, for example, the motion of a rigid body around a fixed point. A rotation
is different from other types of motions: translations, which have no

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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.

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

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