

Rotation Vectors And Fixed Points Of

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

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