

Hass, Joel; Rubinstein, J. H.

One-sided closed geodesics on surfaces. (English) [Zbl 0614.53035](#)
Mich. Math. J. 33, 155-168 (1986).

The authors study one-sided closed geodesics on closed Riemannian 2-manifolds and their intersection properties. Although features of one-sided loops can differ significantly from two-sided curves, it is shown that shortest one-sided closed geodesics still minimize the number of double points in their intersection sets.

Reviewer: [K.Grove](#)

MSC:

[53C22](#) Geodesics in global differential geometry

Cited in **3** Documents

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closed geodesics; Riemannian 2-manifolds; one-sided loops; double points

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