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Immersions Preserved Under Rotations with Totally Reducible Focal Set

of

Rıdvan EZENTAŞ

Mathematics

Abstract: In [1] Carter and the author introduced the idea of an immersion $f : M^m \rightarrow R^n$ with totally reducible focal set (TRFS). Such an immersion has the property that, for all $p \in M$, the focal set with base p is a union of hyperplanes in the normal plane to $f(M)$ at $f(p)$. Here we show that if we take two immersions with TRFS then we can construct new immersions with TRFS. In particular, rotating an immersion with TRFS about an axis gives a new immersion with TRFS.

 [Keywords](#)
 [Authors](#)

Key Words: Critical point theory, Focal points, Focal sets, Totally reducible focal sets, Flat normal bundles. M.R. Number. 53C40, 53C42.



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math@tubitak.gov.tr

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