Poster presentation: The product of modules of a finite number of orthogonal foliations

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The inspiration for a problem's study were the papers [1] and [4], in which sufficient conditions for the product of modules being 1 are formulated : in the case of a pair of orthogonal foliations and a pair of condensers, respectively.

The author considers a diffeomorphism $G: M \to N$, acting between two Riemannian manifolds, and examines the relation between the structure of the Jacobian of G and the conservation of the module of a foliation, or the conservation of the product of modules of a finite number of mutually orthogonal foliations, by that diffeomorphism. Owing to this relation the sufficient conditions for the product of modules (of a finite system of foliations) being 1 are formulated. Next, weaker sufficient conditions are presented.

References

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