

Molino, Pierre

Réduction symplectique et feuilletages riemanniens; moment structural et théorème de convexité. (Symplectic reduction and Riemannian foliations; structural moment and the theorem of convexity). (French) [Zbl 0668.57023](#)

Sémin. Gaston Darboux Géom. Topologie Différ. 1987-1988, 11-25 (1988).

Riemannian foliations admitting transverse symplectic forms are considered. If \mathcal{F} is such a foliation on a compact simply connected manifold V , then there exists a map $J: V \rightarrow R^p$ constant along the leaves. $P = J(V)$ is a closed convex polyhedron. Here, p is the dimension of the structure Lie algebra of \mathcal{F} . Moreover, $J^{-1}(\partial P)$ is the union of singular closure of leaves of \mathcal{F} .

Reviewer: [P.Walczak](#)

MSC:

[57R30](#) Foliations in differential topology; geometric theory

[53C12](#) Foliations (differential geometric aspects)

[58H99](#) Pseudogroups, differentiable groupoids and general structures on manifolds

[37J99](#) Dynamical aspects of finite-dimensional Hamiltonian and Lagrangian systems

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Keywords:

Riemannian foliations; transverse symplectic forms; structure Lie algebra