

Transversely Symplectic Riemannian Foliations

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Abstract

Examples of transversely symplectic Riemannian foliations include K-contact manifolds, cosymplectic manifolds, symplectic mapping tori, and Prato's toric quasifolds. The leaf space of such a foliation is an étale symplectic stack. I will survey my recent work with Benjamin Hoffman and Yi Lin about actions of Lie groups and Lie 2-groups on such spaces, such as a convexity theorem and an Atiyah-Bott-Berline-Vergne type localization theorem.