

Symmetries of b -symplectic manifolds

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b -symplectic manifolds can be viewed as either a generalisation of symplectic manifolds or a specialisation of Poisson manifolds. As such, we can explore the concept of Hamiltonian group actions or, more generally, b -Hamiltonian group actions. These are a generalization of Hamiltonian group actions which are allowed to be transverse to the symplectic foliation of the Poisson manifold. This poster will review the results for b -Hamiltonian group actions on a Poisson manifold and present normal forms for the b -symplectic form close to the orbits of b -Hamiltonian group actions or, more generally, close to the orbits of transverse Poisson group actions.