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T-duality with H -flux from generalized Kähler geometry

The construction of reduction by Poisson Lie group action in Poisson geometry can be extended to generalized complex geometry. A generalized Kähler manifold has two compatible generalized complex structures. We present a construction in generalized Kähler geometry via Poisson Lie reduction on either of the generalized complex structure. The two quotient manifolds thus obtained are possible candidates of a T -dual pair with H -flux.