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Hugo Montani* (montani@cab.cnea.gov.ar), Centro Atomico Bariloche, 8400 Bariloche, Rio Negro, Argentina. *Geometric setting for Poisson Lie T-duality.*

Poisson Lie T-duality relates σ -models on Poisson-Lie groups H, H^* and a WZNW model on the double Lie group $H \times H^*$. We shall describe a hamiltonian approach to PL T-duality in terms of the geometry of the underlying phases spaces T^*H and T^*H^* , characterizing it through equivariant momentum maps associated to hamiltonian actions of $H \times H^*$ on both phase spaces. The reduction procedure allows to identify dualizable subspaces, and compatible dynamics is then defined in collective form establishing a connection with integrable system. (Received January 24, 2008)