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**Hugo Montani\*** ([montani@cab.cnea.gov.ar](mailto: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  $\sigma$ -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)