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Alexander A. Voronov. *On homotopy Lie bialgebroids.*

The concept of a Lie bialgebroid, naturally arising in Poisson geometry, unifies the notions of Lie bialgebras and Lie algebroids. We give an interpretation of Lie bialgebroids and their morphisms in terms of odd symplectic differential graded manifolds using the Hamiltonian framework D.Roytenberg. We extend this further to the homotopy Lie case and discuss the notions of homotopy Lie bialgebroids and morphisms between them. (Received July 24, 2017)