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# Short talk: A homotopy Poisson structure from Poisson reduction

*Wednesday 11 January 2023 10:50 (25 minutes)*

Applying the BFV-BRST techniques from field theory to the hamiltonian reduction of degree one graded symplectic manifolds, we obtain a homotopy version of the classical Konstant-Sternberg BRST algebra in a generalized hamiltonian context. This is based on the correspondence between hamiltonian symplectic degree one manifolds and Poisson manifolds, due to Roytenberg, and the relation between degree one graded reduction and standard Poisson reduction explored by Cattaneo and Zambon.

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