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Poisson Geometry and Applications
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Poisson structures provide a geometric framework for the Hamiltonian formulation of classical mechanics. Poisson geometry has applications in various areas of physics such as quantization and mirror symmetry. The study of degenerate Poisson structures goes back to Sophus Lie. In 1890, he studied linear Poisson structures on finite-dimensional vector spaces. In this talk, we will give a survey of some recent developments in Poisson geometry, and discuss some applications.