

HENRIQUE BURSZTYN, University of Toronto, Toronto, Ontario
Notions of equivalence for Poisson manifolds

I will discuss the relationship between two notions of equivalence in Poisson geometry: one is gauge equivalence, that appears as the Poisson counterpart of Morita equivalence of star-product algebras via Kontsevich's formality correspondence; the other is Xu's Morita equivalence for integrable Poisson manifolds, that is a refinement of Weinstein's notion of dual pairs. As an application, I will show how to construct complete invariants of gauge and Morita equivalence for topologically stable Poisson structures on compact oriented surfaces.