

Séminaire d'Algèbre, Topologie et Géométrie
Jeudi 13 Octobre à 14h00
Salle I

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Title : *The method of algebraic restrictions in local contact and symplectic geometry.*

Abstract : I will explain the notion of algebraic restriction of a differential form on a manifold M to any subset of M and the following generalization of the Darboux-Givental theorem : the algebraic restriction of a contact, respectively symplectic, structure on M to any subset N , respectively to any quasi-homogeneous variety N , is a complete invariant of N with respect to the group of local contactomorphisms, respectively symplectomorphisms, of M . I will give examples showing that the method of algebraic restrictions is a powerful tool in the problems of classifying singular varieties in a contact or symplectic space.