

Séminaire d'Algèbre, Topologie et Géométrie
Jeudi 19 janvier à 14h00
Salle I

Jarosław Buczyński

(Varsovie, Grenoble)

Title : *On the third secant variety.*

Abstract : The rank of a tensor is the minimal number r , such that the tensor is a sum of r simple tensors. The border rank of a tensor is the minimal number r such that the tensor can be approximated by a sum of r simple tensors. In a joint work with Joseph Landsberg we determine normal forms and ranks of tensors of border rank at most three. We present a differential-geometric analysis of limits of secant planes in a more general context. In particular there are at most four types of points on limiting trise-cant planes for cominuscule varieties such as Grassmannians.