Séminaire d'algèbre, topologie et géométrie
Mardi 28 mai à 11h15
Salle I

Shou Yoshikawa

Tokyo

Classification of the singular surfaces admitting a non-invertible polarized endomorphism

Attention : jour et heure inhabituels

Polarized endomorphisms are classical object of complex geometry or algebraic geometry. For example, toric varieties and abelian varieties have a non-invertible polarized endomorphism. Shou-Wu Zhang classified the smooth surfaces admitting a non-invertible polarized endomorphim, and this classification say that if a smooth surface has a non-invertible polarized endomorphism. In this talk, I will introduce the above result and discuss the singular case and a motivation of considering singular variety. Next I will also introduce the classification of singular varieties admitting a polarized endomorphism. This result is joint work with Yohsuke Matsuzawa.