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Pseudo-effective classes and pushforwards

Zhi Jiang *

`zhi.jiang@math.u-psud.fr`

URL : `www.math.u-psud.fr/~jiang/`

Given a morphism between complex projective varieties, we make several conjectures on the relations between the set of pseudo-effective cohomology classes which are annihilated by push-forward and the set of classes of varieties contracted by the morphism. We prove these conjectures for classes of curves or divisors.

This is a joint work with Debarre and Voisin.

*Département de mathématiques, Université Paris-Sud 11, Bâtiment 425, Faculté des Sciences d'Orsay, 91405, Orsay, Cedex, FRANCE.