

EXAMPLES OF NONSMOOTHABLE CYCLES

Speaker: Olivier Benoist

École normale supérieure

Time: Thu., Feb. 1st, 18:10-19:10PM

Tencent Meeting ID: 950 4213 6350 Password: abc123

Abstract:

A d -cycle in a smooth projective variety X is said to be smoothable if it is rationally equivalent to a linear combination of classes of smooth subvarieties of X . I will present two new examples of nonsmoothable cycles. The first example satisfies $2d = \dim(X)$ (just beyond the Whitney range). The second example satisfies $\dim(X) = 6$ (the smallest dimension possible), and is joint work with Olivier Debarre.