EXAMPLES OF NONSMOOTHABLE CYCLES

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École normale supérieure

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

Zoom 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.