



SCMS Seminar

ON THE SMOOTHABILITY OF CYCLES IN THE WHITNEY RANGE

Speaker: Claire Voisin

Institut de Mathématiques de Jussieu-Paris rive gauche

Time: Thu., Feb. 1st, 17:00-18:00PM

Tencent Meeting ID: 950 4213 6350 Password: abc123

Abstract:

We prove that for any smooth projective variety X over a field of characteristic 0, any cycle of dimension d on X can be written modulo rational equivalence as an integral combination of classes of smooth subvarieties, assuming the Whitney condition $2d < \dim X$. This follows from a more general theorem : any cycle (of any dimension) on X can be obtained by pushing-forward a product of divisors on a smooth projective variety Y under a flat projective morphism $Y \rightarrow X$. This is joint work with J. Kollár.