

Hyperkahler Program Seminar

Tuesday, February 14 · 10:30am – 12:00pm

Speaker: D. Matsushita

Title: On nefness criterion

Abstract: Let  $X$  be a projective variety. A line bundle  $L$  on  $X$  is said to be nef if  $L \cdot C \geq 0$  for all effective curves  $C$  on  $X$ . If  $X$  is K3 without  $(-2)$ -curves,  $L$  is nef if  $L^2 \geq 0$ . If  $X$  is K3 with  $(-2)$ -curves,  $L$  is nef if  $L \cdot C \geq 0$  for all  $(-2)$ -curves on  $X$ . We extend this property for a class of higher dimensional varieties which include IHSMs