GENERALIZED FRANCHETTA CONJECTURE FOR GENUS 11 K3 SURFACES

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Time:Tue., Dec. 16th, 13:00-14:00

Venue:Room 102, SCMS

Abstract: I will present a proof of the generalized Franchetta conjecture for genus 11 K3 surfaces. This conjecture predicts that any codimension two cycle on the universal polarized K3 surface of fixed genus restricts to a multiple of the Beauville – Voisin class on a given K3 surface. The proof is based on Mukai’ s program, which relates this conjecture to the moduli space of curves $\overline{M}_{11,1}$. Another key ingredient is a tautological generation result on the second Chow group of the moduli spaces of curves. Result is available in https://arxiv.org/abs/2511.16875.