Pixton's conjecture, the Gorenstein question, and moduli of abelian varieties

vendredi 3 mars 2023 16:45 (1 heure)

I will explain some work in progress that reduces Pixton's conjecture for the moduli space of genus 6 curves of compact type to a calculation in admcycles. Then, I will turn to applications of this calculation to the Gorenstein question for the tautological ring of the moduli space of compact type curves of arbitrary genus and number of marked points. This first part is joint with H. Larson and J. Schmitt. Finally, I will explain a curious and striking connection between the results in the first part of the talk and a seemingly unrelated question about tautological classes on moduli spaces of principally polarised abelian varieties, which again makes significant use of admcycles. This part is joint with D. Oprea and R. Pandharipande.

Orateur: CANNING, Samir