

The Mukai–Ide strata of \mathcal{M}_7 and \mathcal{M}_8

André Contiero¹

¹ UFMG

Mukai, in the mid 90's, and Mukai & Ide, at the beginning of 20's, provided a stratification of the moduli space of smooth curves of genus 7 and 8, respectively, by means of gonality and the existence of suitable linear systems on canonical models of such curves, establishing necessary conditions for a curve to be in adequate stratum. In this talk we present a work in progress that characterizes curves lying on each such stratum. If there is enough time, we will discuss how a theorem due to Vistoli can be used to show that the Chow ring of each such stratum, considered in \mathcal{M}_7 or \mathcal{M}_8 , is tautological. This is a working in progress joint with Edoardo Ballico (Uni. Trento) and Maxwell Santos (UFMG).