

Curves of genus 2 and Desargues configurations

D. Avritzer (Minas Gerais)

Desargues' Theorem states that if the lines joining corresponding vertices of 2 triangles in the projective plane meet in a point then the intersections of corresponding sides lie on a line. The set of 10 points and 10 lines so obtained are called a Desargues configuration. Already in the XIX century it was found out how to relate such a configuration to a binary form of degree 6 and therefore to a curve of genus 2. The aim of this talk will be to put this set of ideas in a contemporary setting considering the moduli spaces of the objects involved. (joint work with H. Lange)