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Nota di contenuto	Preface -- Talks at the UGA conference -- Compact moduli spaces of surfaces of general type -- 1. Introduction -- 2. Moduli of stable surfaces -- 3. Infinitesimal study of the moduli stack -- 4. Wahl singularities -- 5. Orbifold double normal crossing singularities -- 6. Surfaces with boundary -- 7. Plane curves -- 8. Exceptional vector bundles associated to degenerations of surfaces -- 9. Boundary divisors of the moduli space of stable surfaces -- 10. Relation with Donaldson theory -- 11. Other examples of boundary divisors -- References -- Rigid curves on \mathbb{P}^2 and arithmetic breaks -- 1. Introduction -- 2. The Keel-Mumford-Kernan theorem -- 3. Surfaces in \mathbb{P}^2 from configurations of points in \mathbb{A}^2 -- 4. The hypergraph construction -- 5. The dual Hesse configuration and a rigid curve on \mathbb{P}^2 -- 6. The "Two Conics" construction -- 7. Arithmetic break of a hypergraph curve -- 8. Rigid matroids -- 9. Arithmetic break of a "Two Conics" curve - part I -- 10. Arithmetic break of a "Two Conics" curve - part II -- References -- Algebraic and combinatorial Brill-Noether theory -- 1. Introduction -- 2. Algebraic-geometric preliminaries -- 3. Divisor theory on graphs -- 4. Baker specialization lemma refined -- 5. Specialization for graphs with loops -- 6. On the emptiness of Brill-Noether loci -- References -- GIT constructions of log canonical models of \mathbb{P}^2 -- 1. Introduction

-- 2. Parameter spaces -- 3. Finite Hilbert Stability -- 4. Unstable curves: Degenerate and non-reduced curves -- 5. Unstable curves: Badly singular curves and special subcurves -- 6. Local study of the moduli spaces of c-semistable and of h-semistable curves --
References -- The geometry of the ball quotient model of the moduli space of genus four curves -- Introduction -- 1. Preliminaries on canonical genus 4 curves and cubic 3-folds -- 2. GIT for μ_4 curves via cubic 3-folds -- 3. Stability for canonical genus 4 curves -- 4. Hassett-Keel Program -- 5. Ball quotient model for the moduli of genus 4 curves -- 6. The comparison of the GIT and ball quotient models -- References -- Two remarks on the Weierstrass flag -- 1. Introduction -- 2. Linear series of Weierstrass type -- 3. On the Weierstrass flags -- References -- Chern classes of conformal blocks -- 1. Introduction -- 2. Conformal blocks -- 3. The case $\mu = 0$ -- 4. $\mu = 0$, $\nu = a$ -- 5. $\mu = 0$, arbitrary ν and $a = 1$ -- 6. The case $\mu > 0$ -- 7. Questions -- References -- Restrictions of stable bundles -- References -- Orthogonal bundles, theta characteristics and symplectic strange duality -- 1. Introduction -- 2. Moduli spaces -- 3. Hitchin's connection and the geometric Segal-Sugawara tensor -- 4. The proof of Proposition 2.2 -- References.
