

## The Moduli Space of Curves (Progress in Mathematics)



The moduli space  $M_g$  of curves of fixed genus  $g$  that is, the algebraic variety that parametrizes all curves of genus  $g$  is one of the most intriguing objects of study in algebraic geometry these days. Its appeal results not only from its beautiful mathematical structure but also from recent developments in theoretical physics, in particular in conformal field theory.

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References [CHI] L. Caporaso and J. Harris, Parameter spaces for curves on surfaces The Moduli Space of Curves, Progress in mathematics 129, Birkhauser **Moduli Spaces of Curves, Mapping Class Groups and Field Theory - Google Books Result** More generally, one can define a moduli space of stable  $n$ -pointed genus  $g$  curves The open subset of  $M_{g,n}$  corresponding to smooth curves is denoted  $M_{g,n}^*$  .. R. Dijkgraaf, C. Faber, and G. van der Geer eds., Progress in Math. 129 **Publications** arXiv:math/0305344v1 [ ] 24 has been studied for several decades, and important progress has been made recently on some long- . The moduli space  $M_{g,n}$  of nonsingular complex projective curves of genus  $g$  with  $n$  marked points. **What Is A Stack?, Volume 50, Number 4** The Moduli Space of Curves (Progress in Mathematics) eBook: Robert H. Dijkgraaf, Carel Faber, Gerard B.M. van der Geer: : Tienda Kindle. **The Moduli Space of Curves (Progress in Mathematics): Robert H** Recent Progress in Intersection Theory pp 85-113. Notes on the Construction of the Moduli Space of Curves. Authors Trends in Mathematics. Birkhauser **Notes on the Construction of the Moduli Space of Curves** The intersection theory on moduli spaces of curves is connected to KdV hierarchy There is much recent progress on Fabers remarkable conjectures about the **Publications Maxim Kontsevich - IHES** Volume 181 of the series Progress in Mathematics pp 285-298 of stable curves of genus  $g$  is a compactification of the moduli space  $M_g$  of smooth curves. **Intersection theory of moduli space of curves - Pitt Mathematics The Moduli Space of Curves (Progress in Mathematics) eBook** Chapter. The Moduli Space of Curves. Volume 129 of the series Progress in Mathematics pp 267-303. The Chow Ring of the Moduli Space of Curves of Genus 5. **The Moduli Space of Curves Robert H. Dijkgraaf Springer** decade has seen substantial progress in understanding the moduli space of curves, involving ideas, for example, from geometry (algebraic, **The Moduli Space of Curves (Progress in Mathematics) eBook** We wish to construct a moduli space for elliptic curves. Points of the moduli space should corre-

Dan Edidin is professor of mathematics at the University. **the moduli space of curves and its tautological ring - Stanford Math** Volume 1947 of the series Lecture Notes in Mathematics pp 143-198 will focus on the moduli space of smooth curves and how much of the recent progress in **Aise Johan de Jong -- Homepage - Columbia Math Department** Chapter. The Moduli Space of Curves. Volume 129 of the series Progress in Mathematics pp 231-266. Resolution of Diagonals and Moduli Spaces. **LC papers - a3** The moduli space  $M_g$  of curves of fixed genus  $g$  that is, the algebraic variety that parametrizes all curves of genus  $g$  is one of the most intriguing objects of **The Moduli Space of Curves Robert H. Dijkgraaf Springer** The moduli space  $M_g$  of curves of fixed genus  $g$  that is, the algebraic variety that parametrizes all curves of genus  $g$  is one of the Progress in Mathematics. **[math/0305344] Cohomology of moduli spaces -** Volume 235 of the series Progress in Mathematics pp 169-192 as applied to the moduli space of curves, especially in the case of curves of genus two. **Moduli of Curves and Abelian Varieties: The Dutch Intercity - Google Books Result** The Picard groups of the moduli spaces of curves. Topology, 26:153171, Enriques surfaces I, volume 76 of Progress in Mathematics. Birkhauser, Boston **Weil-Petersson volumes and intersection theory on the moduli space** The moduli space  $M_g$  of curves of fixed genus  $g$  that is, the algebraic variety that parametrizes all curves of genus  $g$  is one of the Progress in Mathematics. **European Congress of Mathematics: Budapest, July 22-26, 1996 - Google Books Result** M. Boggi and M. Pikaart, Galois covers of moduli of curves, Compositio Math. combinatorial invariants of Hamiltonian  $???$ -spaces, Progress in Mathematics, vol. **The Moduli Space of Curves and Gromov-Witten Theory - Springer** > math > arXiv:math/0305344 Abstract: Some recent progress towards understanding the cohomology of moduli spaces of curves is **Cohomology of Moduli Spaces** The Moduli Space of Curves (Progress in Mathematics) eBook: Robert H. Dijkgraaf, Carel Faber, Gerard B.M. van der Geer: : Kindle Store. **Classical and minimal models of the moduli space of curves of** Math. [9] M. Cornalba: On the projectivity of the moduli spaces of curves. J. Reine Progress in Mathematics 129, Birkhauser, Boston 1995. [18] D. Edidin: The **The Chow Ring of the Moduli Space of Curves of Genus 5 - Springer** Math. Phys. 159 (1994), 265-285. E. Getzler, Operads and moduli spaces of genus 0 Riemann surfaces, in: The moduli space of curves, ed. R. Dijkgraaf, C. Faber and G. van der Geer, Progress Math., 129, Birkhauser, Boston, 1995, 199230. **On the tautological ring of  $M$  - Stanford Mathematics** In the summer of 2009 I organized a conference on Spaces of curves and their F. Oort, J.H.M. Steenbrink, Progress in Mathematics, 89 (1991), Birkh/ausser, pp. 485-503. papers/ A.J. de Jong, The moduli spaces of principally **A Compactification of a Fine Moduli Space of Curves - Springer** The orientable cover of the moduli space of real genus zero algebraic curves with Tamari Memorial Festschrift: Progress in Mathematics Volume 299 (2012). **Publications Maxim Kontsevich - IHES** We report on recent progress towards the determination of the rational cohomology of the moduli spaces of stable curves. 1991 Mathematics Subject Classification: 14Hm cohomology of moduli spaces of stable curves - Dipartimento di The rationality of the moduli spaces of Coble surfaces and of nodal Enriques surfaces, Rational curves on the supersingular K3 surface with Artin invariant 1 in hypergeometric functions, Progress in Mathematics, Birkhauser, 260 (2007), Resolution of Diagonals and Moduli Spaces - Springer [A] W. Abikoff, The real analytic theory of Teichmüller space, LN 820, Dijkgraaf, C. Faber, G. van der Geer eds, The moduli space of curves, Progress in Math. Two-Dimensional Conformal Geometry and Vertex Operator Algebras - Google Books Result The tropicalization of the moduli space of curves. (pdf) With Dan Springer Proceedings in Mathematics and Statistics 71, pp 77-109 2014. Rank of divisors on Papers Satyan L Devadoss Suhov), Proceedings of the Steklov Institute of Mathematics, vol. Appendix to Quantization on Curves by Chris Fronsdal, Lett. Math. Physics. the 90-th anniversary of d, Progress in Mathematics Volume 244, Birkhauser, 2005, 312-385. Connected components of the moduli spaces of Abelian differentials with