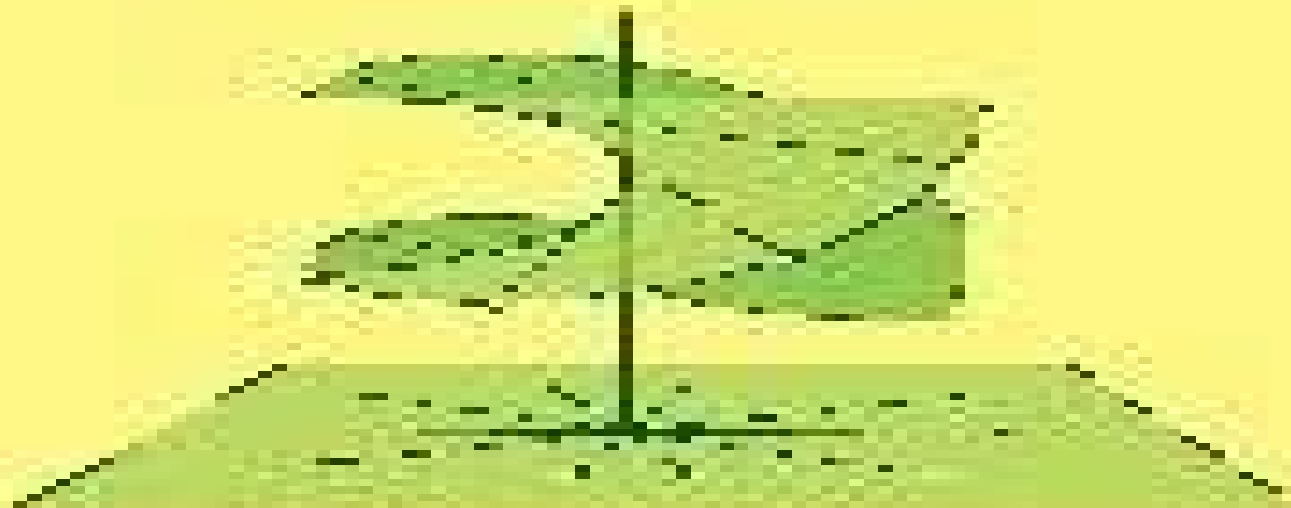


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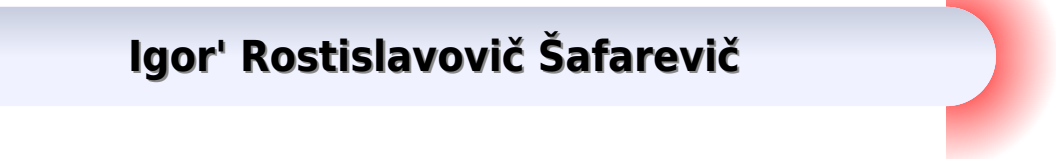
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Algebraic Geometry 1

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Algebraic Geometry 1:

Basic Algebraic Geometry 1 Igor R. Shafarevich, 2013-08-13 Shafarevich's *Basic Algebraic Geometry* has been a classic and universally used introduction to the subject since its first appearance over 40 years ago. As the translator writes in a prefatory note: For all advanced undergraduate and beginning graduate students and for the many specialists in other branches of math who need a liberal education in algebraic geometry, Shafarevich's book is a must. The third edition, in addition to some minor corrections, now offers a new treatment of the Riemann-Roch theorem for curves, including a proof from first principles. Shafarevich's book is an attractive and accessible introduction to algebraic geometry suitable for beginning students and nonspecialists, and the new edition is set to remain a popular introduction to the field. *Methods of Algebraic Geometry* William Vallance Douglas Hodge, Daniel Pedoe, 1947 This classic work in three volumes provides a lucid and rigorous account of the foundations of modern algebraic geometry. The authors have confined themselves to fundamental concepts and geometrical methods and do not give detailed developments of geometrical properties, but geometrical meaning has been emphasized throughout. **Algebraic Geometry** Ulrich Görtz, Torsten Wedhorn, 2010-08-06 This book introduces the reader to modern algebraic geometry. It presents Grothendieck's technically demanding language of schemes, which is the basis of the most important developments in the last fifty years, within this area. A systematic treatment and motivation of the theory is emphasized, using concrete examples to illustrate its usefulness. Several examples from the realm of Hilbert modular surfaces and of determinantal varieties are used methodically to discuss the covered techniques. Thus the reader experiences that the further development of the theory yields an ever better understanding of these fascinating objects. The text is complemented by many exercises that serve to check the comprehension of the text, treat further examples, or give an outlook on further results. The volume at hand is an introduction to schemes. To get started, it requires only basic knowledge in abstract algebra and topology. Essential facts from commutative algebra are assembled in an appendix. It will be complemented by a second volume on the cohomology of schemes. **Algebraic Geometry 1** Kenji Ueno, 2003 **Basic Algebraic Geometry 1-2, Volume 1** Igor' Rostislavovič Šafarevič, 1994 *Basic Algebraic Geometry 1* Igor R. Shafarevich, 2013-11-27 The first edition of this book came out just as the apparatus of algebraic geometry was reaching a stage that permitted a lucid and concise account of the foundations of the subject. The author was no longer forced into the painful choice between sacrificing rigour of exposition or overloading the clear geometrical picture with cumbersome algebraic apparatus. The 15 years that have elapsed since the first edition have seen the appearance of many beautiful books treating various branches of algebraic geometry. However, as far as I know, no other author has been attracted to the aim which this book set itself to give an overall view of the many varied aspects of algebraic geometry without going too far afield into the different theories. There is thus scope for a second edition. In preparing this, I have included some additional material, rather varied in nature, and have made some small cuts, but the general character of the book remains unchanged.

Algebraic Geometry 2 Kenji Ueno, 1999 Modern algebraic geometry is built upon two fundamental notions schemes and sheaves The theory of schemes was explained in Algebraic Geometry 1 From Algebraic Varieties to Schemes see Volume 185 in the same series Translations of Mathematical Monographs In the present book Ueno turns to the theory of sheaves and their cohomology Loosely speaking a sheaf is a way of keeping track of local information defined on a topological space such as the local holomorphic functions on a complex manifold or the local sections of a vector bundle To study schemes it is useful to study the sheaves defined on them especially the coherent and quasicoherent sheaves The primary tool in understanding sheaves is cohomology For example in studying ampleness it is frequently useful to translate a property of sheaves into a statement about its cohomology The text covers the important topics of sheaf theory including types of sheaves and the fundamental operations on them such as coherent and quasicoherent sheaves proper and projective morphisms direct and inverse images Čech cohomology For the mathematician unfamiliar with the language of schemes and sheaves algebraic geometry can seem distant However Ueno makes the topic seem natural through his concise style and his insightful explanations He explains why things are done this way and supplements his explanations with illuminating examples As a result he is able to make algebraic geometry very accessible to a wide audience of non specialists The book contains numerous problems and exercises with solutions It would be an excellent text for the second part of a course in algebraic geometry

Rudiments of Algebraic Geometry W.E. Jenner, 2017-11-29 Aimed at advanced undergraduate students of mathematics this concise text covers the basics of algebraic geometry Topics include affine spaces projective spaces rational curves algebraic sets with group structure more 1963 edition

Elementary Algebraic Geometry Keith Kendig, 2015-01-19 Designed to make learning introductory algebraic geometry as easy as possible this text is intended for advanced undergraduates and graduate students who have taken a one year course in algebra and are familiar with complex analysis This newly updated second edition enhances the original treatment's extensive use of concrete examples and exercises with numerous figures that have been specially redrawn in Adobe Illustrator An introductory chapter that focuses on examples of curves is followed by a more rigorous and careful look at plane curves Subsequent chapters explore commutative ring theory and algebraic geometry as well as varieties of arbitrary dimension and some elementary mathematics on curves Upon finishing the text students will have a foundation for advancing in several different directions including toward a further study of complex algebraic or analytic varieties or to the scheme theoretic treatments of algebraic geometry 2015 edition

Integrable Systems and Algebraic Geometry Ron Donagi, Tony Shaska, 2020-04-02 A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field

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