

London Mathematical Society
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Arithmetic and Geometry

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Arithmetic Geometry Mathematical Society Lecture

Sasha Hu



Arithmetic Geometry Mathematical Society Lecture:

Arithmetic and Geometry Luis Dieulefait, 2015-10-08 The world's leading authorities describe the state of the art in Serre's conjecture and rational points on algebraic varieties

Representation Theory and Algebraic Geometry A. Martsinkovsky, G. Todorov, 1997 For any researcher working in representation theory algebraic or arithmetic geometry

Galois Representations in Arithmetic Algebraic Geometry A. J. Scholl, Richard Lawrence Taylor, 1998-11-26 Conference proceedings based on the 1996 LMS Durham Symposium Galois representations in arithmetic algebraic geometry

Number Theory and Algebraic Geometry Miles Reid, Alexei Skorobogatov, 2003 Sir Peter Swinnerton Dyer's mathematical career encompasses more than 60 years work of amazing creativity This volume provides contemporary insight into several subjects in which Sir Peter's influence has been notable and is dedicated to his 75th birthday The opening section reviews some of his many remarkable contributions to mathematics and other fields The remaining contributions come from leading researchers in analytic and arithmetic number theory and algebraic geometry The topics treated include rational points on algebraic varieties the Hasse principle Shafarevich Tate groups of elliptic curves and motives Zagier's conjectures descent and zero cycles Diophantine approximation and Abelian and Fano varieties

Representation Theory and Algebraic Geometry A. Martsinkovsky, Gordana Todorov, 1997-05-15 For any researcher working in representation theory algebraic or arithmetic geometry

Arithmetic Geometry Jean-Louis Colliot-Thélène, Peter Swinnerton-Dyer, Paul Vojta, 2010-10-27 Arithmetic Geometry can be defined as the part of Algebraic Geometry connected with the study of algebraic varieties through arbitrary rings in particular through non algebraically closed fields It lies at the intersection between classical algebraic geometry and number theory A C I M E Summer School devoted to arithmetic geometry was held in Cetraro Italy in September 2007 and presented some of the most interesting new developments in arithmetic geometry

This book collects the lecture notes which were written up by the speakers The main topics concern diophantine equations local global principles diophantine approximation and its relations to Nevanlinna theory and rationally connected varieties The book is divided into three parts corresponding to the courses given by J L Colliot Thelene Peter Swinnerton Dyer and Paul Vojta

Homotopy Theory and Arithmetic Geometry - Motivic and Diophantine Aspects Frank Neumann, Ambrus Pál, 2021-09-29 This book provides an introduction to state of the art applications of homotopy theory to arithmetic geometry The contributions to this volume are based on original lectures by leading researchers at the LMS CMI Research School on Homotopy Theory and Arithmetic Geometry Motivic and Diophantine Aspects and the Nelder Fellow Lecturer Series which both took place at Imperial College London in the summer of 2018 The contribution by Brazelton based on the lectures by Wickelgren provides an introduction to arithmetic enumerative geometry the notes of Cisinski present motivic sheaves and new cohomological methods for intersection theory and Schlank's contribution gives an overview of the use of tame homotopy theory for obstructions to the existence of rational points on algebraic varieties Finally the article by Asok and Sturmfels based in

part on the Nelder Fellow lecture series by stv r gives a survey of the interplay between motivic homotopy theory and affine algebraic geometry with a focus on contractible algebraic varieties Now a major trend in arithmetic geometry this volume offers a detailed guide to the fascinating circle of recent applications of homotopy theory to number theory It will be invaluable to research students entering the field as well as postdoctoral and more established researchers

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 Arithmetic Geometry Clay Mathematics Institute. Summer School, 2009 This book is based on survey lectures given at the 2006 Clay Summer School on Arithmetic Geometry at the Mathematics Institute of the University of Gottingen Intended for graduate students and recent Ph D s this volume will introduce readers to modern techniques and outstanding conjectures at the interface of number theory and algebraic geometry The main focus is rational points on algebraic varieties over non algebraically closed fields Do they exist If not can this be proven efficiently and algorithmically When rational points do exist are they finite in number and can they be found effectively When there are infinitely many rational points how are they distributed For curves a cohesive theory addressing these questions has emerged in the last few decades Highlights include Faltings finiteness theorem and Wiles proof of Fermat s Last Theorem Key techniques are drawn from the theory of elliptic curves including modular curves and parametrizations Heegner points and heights The arithmetic of higher dimensional varieties is equally rich offering a complex interplay of techniques including Shimura varieties the minimal model program moduli spaces of curves and maps deformation theory Galois cohomology harmonic analysis and automorphic functions However many foundational questions about the structure of rational points remain open and research tends to focus on properties of specific classes of varieties

Algebraic and Analytic Geometry Amnon Neeman, 2007-09-13 Modern introduction to algebraic geometry for undergraduates uses analytic ideas to access algebraic theory

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