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MATHEMATICS N2

8 APRIL 2013

This marking guideline consists of 9 pages.

Mathematics N2 Memorandum April 2013

S Ben Porath



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Hilbert Schemes of Points and Infinite Dimensional Lie Algebras Zhenbo Qin, 2018-02-26 Hilbert schemes which parametrize subschemes in algebraic varieties have been extensively studied in algebraic geometry for the last 50 years The most interesting class of Hilbert schemes are schemes of collections of points zero dimensional subschemes in a smooth algebraic surface Schemes turn out to be closely related to many areas of mathematics such as algebraic combinatorics integrable systems representation theory and mathematical physics among others This book surveys recent developments of the theory of Hilbert schemes of points on complex surfaces and its interplay with infinite dimensional Lie algebras It starts with the basics of Hilbert schemes of points and presents in detail an example of Hilbert schemes of points on the projective plane Then the author turns to the study of cohomology of including the construction of the action of infinite dimensional Lie algebras on this cohomology the ring structure of cohomology equivariant cohomology of and the Gromov Witten correspondence The last part of the book presents results about quantum cohomology of and related questions The book is of interest to graduate students and researchers in algebraic geometry representation theory combinatorics topology number theory and theoretical physics *Stability in Gagliardo-Nirenberg-Sobolev Inequalities: Flows, Regularity and the Entropy Method* Matteo Bonforte, Jean Dolbeault, Bruno Nazaret, Nikita Simonov, 2025-05-29 View the abstract

Theoretical and Applied Mechanics Frithiof I. Niordson, Niels Olhoff, 2013-10-15 Theoretical and Applied Mechanics covers the proceedings of the 16th International Congress of Theoretical and Applied Mechanics held at the Technical University of Denmark Lyngby Denmark on August 19-25 1984 The contributors consider the significant advances in the thriving field of mechanics This book is composed of 21 chapters and begins with an overview of space research contributions in understanding fluid media mechanics This topic is followed by discussions on some aspects and fundamentals of mechanics such as chaos computer application resonant phenomena adiabaticity and nonlinear acoustics The following chapters explore the various applications of theoretical and applied mechanics including in marine structures oil recovery and ice and snow mechanics This book also deals with nonlinear wave motion hydrodynamic systems ocean wave spectra and Helmholtz concept The remaining chapters look into the issues of steady water bifurcation concept of anisotropic soils and flow visualization This book is of great value to physicists and research workers who wish to expand their knowledge in mechanics

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