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Invariant Theory Notes by Bernd Sturmfels for the lecture on June 19, 2018, in the IMPRS Ringvorlesung Introduction to Nonlinear Algebra We  $x$  the polynomial ring  $K[x] = K[x_1, \dots, x_n]$

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over a field  $K$  of characteristic zero. The group  $GL(n;K)$  of invertible  $n \times n$  matrices acts on  $K^n$ . This induces an action by  $G$  on the ring of polynomial functions on  $K^n$ . Namely, if  $f = (f_1, \dots, f_r)$

## **Invariant Theory**

The first lecture gives some flavor of the theory of invariants. Basic notions such

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as (linear) group representation, the ring of regular functions on a vector space and the ring of invariant functions are defined, and some instructive examples are given. 1.1 Polynomial functions Let  $V$  be a complex vector space.

**Invariant Theory with Applications**  
invariant theory, simplifying and



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correcting proofs, and adding more examples ... catching numerous mistakes in my lecture notes. Special thanks go to Ana-Maria Castravet, Mihnea Popa, Janis ...

**LECTURES ON INVARIANT THEORY -  
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GEOMETRIC INVARIANT THEORY 3 1.2.

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Rings of invariants. For any variety  $X$ , let  $A(X)$  denote the algebra of morphisms  $X \rightarrow k$ . The action of  $G$  on  $X$  determines an action of  $G$  on  $A(X)$ . We write  $A(X)^G$  for the algebra of elements of  $A(X)$  which are  $G$ -invariant. If  $X \rightarrow Z$  is constant on orbits, the natural homomorphism  $A(Z) \rightarrow A(X)$  has image contained in  $A(X)^G$ .

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## **GEOMETRIC INVARIANT THEORY**

The problems being solved by invariant theory are far-reaching generalizations and extensions of problems on the “reduction to canonical form” of various ... Schmid, B. [1991]: Finite groups and invariant theory. Lecture Notes Math. 1478, 35–66 Google Scholar. Schoefield, A.H. [1991]: Semi-invariants of quivers.

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J. London Math. Soc. 43 ...

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## **theory: lecture notes ...**

Invariant theory is a branch of abstract algebra dealing with actions of groups on algebraic varieties, such as vector spaces, from the point of view of their effect on functions. Classically, the theory dealt with the question of explicit description of polynomial functions that do not change, or are invariant, under

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the transformations from a given linear group.

## **Invariant theory - Wikipedia**

These notes, consisting of eleven lectures and an appendix on classical invariant theory, are based on lectures which I gave in the fall of 1975 at the University of Montreal and in the spring

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of 1976 at Tokyo University. I shall indicate briefly here their content. Lecture 1 describes the relationship between moduli theory and the

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Ergodic theory lies in somewhere among measure theory, analysis, probability, dynamical systems, and differential

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equations and can be motivated from many different angles. We will choose one specific point of view but there are many others. Let  $\dot{x} = f(x)$  be an ordinary differential equation. The problem of studying differential

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## **(London Mathematical Society ...**

by  $x \mapsto gx$ . To see that  $(T^{-1}A) = (A)$ , let  $(A) = (g^{-1}A)$ , and note that  $\mu$  is a Borel probability measure that is right invariant: for any  $h \in H$ ,  $(Bh) = (g^{-1}Bh) = (g^{-1}B) = (B)$ . This is Example 2.1.5 (Doubling map). Let  $X = [0;1]$  with the Borel sets and Lebesgue measure, and let  $Tx = 2x \bmod 1$ . This map is onto, not

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1-1, in

## **Notes on ergodic theory - huji.ac.il**

Invariant manifolds provides the answer. The second comes from our study of linear systems:  $x' = Ax$ ,  $x \in \mathbb{R}^n$ . Let  $E_s, E_c$ , and  $E_u$  be the (generalized) real eigenspaces of  $A$  associated with eigenvalues of  $A$  lying on the open left

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half plane, the imaginary axes, and the open right half plane, respectively.

## **Page 67 Invariant Manifolds - Caltech Computing**

Geometric invariant theory (GIT) is a method for constructing group quotients in algebraic geometry and it is frequently used to construct moduli

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spaces. The core of this course is the construction of GIT quotients. Eventually we return to our original motivation of moduli problems and construct moduli spaces using GIT.

**MODULI PROBLEMS AND  
GEOMETRIC INVARIANT THEORY**  
algebra of invariants algebraically

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independent assertion Assume binary  
polyhedral groups canonical basis char  
commutes defined denote eigenvalues  
Exercise finite groups finite reflection  
groups finite subgroup finite type  
finiteness theorem for  $G$  acts  $G \subset GL(V)$   $g$   
 $e \in G$   $G$ -invariant  $G$ -modules  $G$ -stable  
subspace  $GL_n(k)$  Jordan graded algebra  
group  $G$  ...

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## **Invariant Theory - T.A. Springer - Google Books**

Lecture 1 Spectra and stable homotopy  
theory notes Lecture 1 9/5 x1

Administrative announcements This is a  
class taught by Michael Hopkins, whose  
office is in 508. Office hours are Wednesdays  
3-4. After this class, we'll be in room

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507. That makes me happy, because I'm taller than everyone in that class. There will be no class meeting on Monday ...

## **Spectra and stable homotopy theory - University of Chicago**

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Summary: Based on lectures given at  
University of Michigan, Harvard  
University and Seoul National University,  
this 2003 book is a brief introduction to

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the main ideas of algebraic and geometric invariant theory. The emphasis is on concrete examples and there are numerous examples and exercises to aid the reader.

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Invariant Subspaces (35 pages)

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Supplementary Linear Algebra Notes for  
Math 3000 (68 pages) Local Fields;  
Introduction to Local Fields (written in  
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Notes from a 2010 summer lecture  
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## **Pete L. Clark's Expositions - University of Georgia**

Invariant theory and superalgebras.  
Providence, R.I.: Published for the  
Conference Board of the Mathematical  
Sciences by the American Mathematical  
Society. ISBN 0-8218-0719-6. Grosshans,  
Frank D. (1977). Algebraic  
Homogeneous Spaces and Invariant

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Theory (Lecture Notes in Mathematics).  
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Grosshans, G. D. (1986).

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