Lecture 10 Holomorphic Bundles I Existence

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Lecture 10 Holomorphic Bundles I

Jonathan Evans () Lecture 10: Holomorphic bundles I (Existence) 20th October 2011 2 / 11. Proposition. If P is a principal U(n)-bundle over a Riemann surface M with associated bundle E and ris a U(n)-connection then E inherits the structure of a holomorphic vector bundle over M such that r0;1= @. Proof.

Lecture 10: Holomorphic bundles I (Existence)

Lecture 4. Unstable bundles of rank two and extensions We will discuss the Harder{Narasimhan ltration of a holomorphic vector bundle. For an unstable1 vector bundle E of rank two, this yields the exis-tence of a unique destabilizing line bundle, so that E may be presented in a canonical way as the extension of two line bundles.

Introduction to holomorphic vector bundles on compact ...

If E is a holomorphic vector bundle, the cohomology of E is defined to be the sheaf cohomology of ().In particular, we have (, ()) = (, ()),the space of global holomorphic sections of E.We also have that (, ()) parametrizes the group of extensions of the trivial line bundle of X by E, that is, exact sequences of holomorphic vector bundles 0 → E → F → X × C → 0.

Holomorphic vector bundle - Wikipedia

F. A. Bogomolov 1977 Holomorphic tensors and vector bundles on projective varieties, Preprint (Russian), February [7] F. A. Bogomolov 1977 Families of curves on a surface of general type Dokl. Akad. Nauk SSSR 236 1041-1044

HOLOMORPHIC TENSORS AND VECTOR BUNDLES ON PROJECTIVE ...

A complex vector bundle $\pi \colon E \to M$ is a vector bundle whose fiber bundles $\pi^{-1}(m)$ are a copy of $\mathbb{C}^k$. π is a holomorphic vector bundle if it is a holomorphic map between complex manifolds and its transition functions are holomorphic.

Newest 'holomorphic-bundles' Questions - Mathematics Stack ...

For review of the statement and its proof see (Evans, lecture 10). Related concepts. Kodaira vanishing theorem. Chern connection.

Kähler polarization. stable vector bundle. moduli space of bundles. Deligne line bundle. Higgs bundle. algebraic line bundle. holomorphic line 2-bundle, holomorphic line n-bundle. complex analytic stack ...

holomorphic vector bundle in nLab

4.2 Flat Bundles and Representations of the Fundamental Group 17 4.3 From Representations to Flat Bundles 18 4.4 Holomorphic Vector Bundle 19 4.5 Holomorphic Bundles and their Trivializations 19 4.6 Pseudo-Connection 20 4.7 Pseudo-Curvature 20 4.8 The Space of Pseudo-Connections 22 4.9 The Action of the Gauge Group 23 5 Flat Bundles and ...

An Introduction to the Di erential Geometry of Flat ...

Let X be a reduced Stein space and L a holomorphic line bundle on X. L is spanned by its global sections and the associated holomorphic map h(L) : X --> P(H-0(X, L)(*)) is an embedding.

Bogomolov, F.A.: Holomorphic tensors and vector bundles on ...

Jonathan Evans Lecture 12: Holomorphic bundles III (Harder-Narasimhan)3rd November 2011 8 / 10. Here's an alternative way of stating the theorem which is closer in spirit to the Kempf-Ness theorem (and indeed to the proof). Remember that we de ned a complexi cation G

Lecture 12: Holomorphic bundles III (Harder-Narasimhan)

De nition 1.3. A form p;2 0 is holomorphic if @ = 0. It is easy to see that a (p;0)-form is holomorphic if and only if it can locally be written as = X jIj=p Idz I; (1.20) where the I are holomorphic functions. De nition 1.4.

K ahler manifolds, Ricci curvature, and hyperk ahler metrics

Lecture no. 3, Professor S.T. Yau , April 10, 2007 Notes and supplementary comments (in [ ]s) by Robert E. Greene Last time: Real 4-manifolds M4 with almost (many) complex structures but with no ... of germs of sections of the sections of the holomorphic vector bundle ...

Lecture no. 3, Professor S.T. Yau , April 10, 2007

Do we get all isomorphism classes of holomorphic vector bundles this way? ag.algebraic-geometry complex-geometry vector-bundles. share | cite | improve this question | follow | edited Jun 24 at 15:37. vrz. asked Jun 24 at 7:23. vrz vrz. 412 1 1 silver badge 16 16 bronze badges $\endgroup$ 5

Building all holomorphic vector bundles from the tangent ...

T1 - Holomorphic tensors and vector bundles on projective varieties. AU - Bogomolov, F. A. PY - 1979/6/30. Y1 - 1979/6/30.

N2 - In this paper we study vector bundles on varieties of dimension greater than one. To do this, we apply the theory of equivariant model maps developed in the paper.

Holomorphic tensors and vector bundles on projective ...

To do this, we apply the theory of equivariant model maps developed in the paper. We prove a topological criterion for the unstability of a vector bundle on a projective surface. Using this estimate and the closedness of holomorphic forms on projective varieties we prove the inequality for the Chern classes of a surface of general type.

HOLOMORPHIC TENSORS AND VECTOR BUNDLES ON PROJECTIVE ...

10 1. VECTOR BUNDLES ON PROJECTIVE SPACE where M are the sheaves of holomorphic di erential forms, and (i) is tensoring by the line bundle O M(i). This collection has particularly nice

properties: the only nonzero Ext spaces between the F iare the degree zero morphism spaces (1.4) Hom M(F i;F j) ˇ= j i(V) for i j. In particular, each F iitself is exceptional. If we choose the F

Lectures on Categorical Dynamics and Symplectic Topology ...

Lectures On Fibre Bundles and Differential Geometry By J.L. Koszul Notes by S. Ramanan No part of this book may be reproduced in any form by print, microfilm or any other means without written permission from the Tata Insti- ... 6.5 Connections in holomorphic bundles 88

Lectures On Fibre Bundles and Differential Geometry

Assume that we have a holomorphic vector bundle Es over each member Ms of the family so that these bundles together form a holomorphic bundle over the whole family. Suppose s0 2 S and Hs0 is a Hermitian-Einstein metric of Es0 with respect to the

K˜ahler form!s0. Suppose that Es0! for @ and @„ and⁄!

LECTURES ON HERMITIAN-EINSTEIN METRICS FOR STABLE BUNDLES ...

2.1. Higgs bundles. 2.1.1. Holomorphic bundles and stability. Throughout these notes, Xwill denote a closed Riemann surface of genus g 2 and E!Xa complex vector bundle. We begin with a discussion of the basic di erential geometry of complex vector bundles. Good references for this material are Kobayashi's book [45] and Gri ths and Harris [26].

HIGGS BUNDLES AND LOCAL SYSTEMS ON RIEMANN SURFACES

This lecture is an exposition on Jacobians. I start with the analytic theory, where the Jacobian is defined as the quotient of a vector space by a lattice. I then discuss the representability issues of the functor of points over arbitrary fields.

Lecture 10: Jacobians

The main goal is to explore connections among complex torus bundles, mixed automorphic forms, and Jacobi forms associated to an equivariant holomorphic map. Both number-theoretic and algebro-geometric aspects of such connections and related topics are discussed.