

Vector Bundles On Curves New Directions Lectures Given At The

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## Summary:

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Vector bundle - Wikipedia In mathematics, a vector bundle is a topological construction that makes precise the idea of a family of vector spaces parameterized by another space  $X$  (for example  $X$  could be a topological space, a manifold, or an algebraic variety): to every point  $x$  of the space  $X$  we associate (or "attach") a vector space  $V(x)$  in such a way that these vector. VECTOR BUNDLES ON CURVES - Tufts University A subbundle  $F$  of a vector bundle  $E$  is a subvariety of  $E$  which is itself a bundle and such that the inclusion is a morphism of bundles. The usual operations on vector spaces like direct sum, tensor product. 3.2 Vector bundles -  $\hat{A}$  Department of Mathematics Mis the dual vector bundle. If  $E, F$  are vector bundles then  $E \oplus F$  is called the direct or "Whitney" sum, and has rank  $\text{rk } E + \text{rk } F$ .  $E \otimes F$  is the tensor product bundle, which has rank  $\text{rk } E \cdot \text{rk } F$ . Example 3.23. If  $E$  is a vector bundle of rank  $n$ , then  $E^{\otimes k}$  and  $E^{\wedge k}$  are its tensor power bundles, of rank  $n^k$  and  $\binom{n}{k}$ , respectively.

Allen Hatcher - pi.math.cornell.edu Vector bundles thus combine topology with linear algebra, and the study of vector bundles could be called Linear Algebraic Topology. The only two vector bundles with base space a circle and one-dimensional fiber are the Möbius band and the annulus, but the classification of all the different vector. Vector Bundles on Complex Projective Spaces (Progress in ... The present book is the first one, within the extensive literature on algebraic vector bundles, to give both a self-contained introduction to the basic methods and an exposition of the current state of the classification theory of algebraic vector bundles over  $\mathbb{P}^n(\mathbb{C})$ . VECTOR BUNDLES OVER AN ELLIPTIC CURVE VECTOR BUNDLES OVER AN ELLIPTIC CURVE 415 embedded biregularly in some projective space). We shall be concerned with vector bundles over  $X$ , i.e. algebraic fibre bundles over  $X$  with a vector space as fibre and the general linear group as structure group.

Vector bundles on the Fargues-Fontaine curve - lccs Review: vector bundles on curves. Let  $C$  be a smooth projective curve. There is a nice moduli space parameterizing isomorphism classes of line bundles on  $C$ , its the Picard variety. Unlike the case of line bundles, isomorphism classes vector bundles of higher rank in general do not form nice moduli space, e.g., the jump phenomenon shows that it is not even separated.

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vector bundles and homogeneous spaces

vector bundles and projective modules

vector bundles in algebraic geometry

vector bundles and p-adic hodge theory