

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. 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  $E^{\otimes k}$  are its tensor power bundles, of rank  $n^k$  and  $n^k$ , respectively. 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.

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. 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. Allen Hatcher - pi.math.cornell.edu The only two vector bundles with base space a circle and one-dimensional fibre are the Möbius band and the annulus, but the classification of all the different vector bundles over a given base space with fibre of a given dimension is quite difficult in general. For example, when the base space is a high-dimensional sphere and the

Vector Bundles on Projective Space - University of Michigan Vector Bundles on Projective Space Takumi Murayama December 1, 2013 1 Preliminaries on vector bundles Let  $X$  be a (quasi-projective) variety over  $k$ .

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vector bundles on the 7 sphere

vector bundle on sphere

vector bundles and homogeneous spaces

vector bundles and projective modules

vector bundles in algebraic geometry

vector bundles and p-adic hodge theory