Fourier Mukai And Nahm Transforms In Geometry And Mathematical Physics

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Summary:

Fourierâ€“Mukai transform - Wikipedia In algebraic geometry, a Fourierâ€“Mukai transform Î¦ K is a functor between derived categories of coherent sheaves D(X) â†’ D(Y) for schemes X and Y, which is, in a sense, an integral transform along a kernel object K âˆˆ D(XÃ—Y. FOURIER-MUKAI PARTNERS OF SURFACES IN POSITIVE CHARACTERISTIC FOURIER-MUKAI PARTNERS OF K3 SURFACES IN POSITIVE CHARACTERISTIC MAX LIEBLICH AND MARTIN OLSSON CONTENTS 1. Introduction 1 2. Mukai motive 3 3. Kernels of Fourier-Mukai equivalences 9. Fourierâ€“Mukai transforms for quotient varieties ... A Fourierâ€“Mukai (FM) transform is an exact equivalence Φ : D (Y) D (X) between the bounded derived categories of coherent sheaves on two smooth projective varieties X and Y.

Fourier-Mukai Transforms arXiv:math/0402043v2 [math.AG] 18 ... Fourier-transform and is therefore called a â€œFourier-Mukaiâ€• transform. In [7] Beilinson showed that P n is derived equivalent to a (non-commutative) ï¬•nite dimensional algebra. big picture - Heuristic behind the Fourier-Mukai transform ... The Fourier-Mukai transform in algebraic geometry gets its name because it at least superficially resembles the classical Fourier transform. (And of course because it was studied by Mukai.) Let me give a rough picture of the Fourier-Mukai transform and how it resembles the classical situation. Fourier-Mukai transform and index theory | SpringerLink Abstract. Given a submersive morphism of complex manifoldsf: Xâ†’Y, and a complex vector bundleE onX, there is a relationship between the higher direct images of Îµ (the sheaf of holomorphic sections ofE) and the index of the relative Dolbeault complex twisted byE.This relationship allows one to yield a global and simple proof of the equivalence between the Mukai transform of stable vector.

Fourier Mukai transforms and applications to string theory Fourier-Mukai and string theory explicit description of stable holomorphic vector bundles was required and inspired the seminal work of Friedman, Morgan and Witten [58, 59, 61]. Fourierâ€“Mukai transforms - University of Bonn Basics Fourierâ€“Mukai transform Compositions Fully faithful Equivalences Spherical twists X,X0 = smooth projective varieties /C and E âˆˆ Db(X Ã—X0). The Fourierâ€“Mukai transform Φ E with Fourierâ€“Mukai kernel E is the composition p.

fourier mukai transform