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. Stability and the Fourierâ€“Mukai transform II | Compositio ... Fourierâ€“Mukai transforms and Bridgeland stability conditions on abelian threefolds II. International Journal of Mathematics, Vol. 27, Issue. 01, p. 1650007. CrossRef; Google Scholar; Minamide, Hiroki Yanagida, Shintarou and Yoshioka, KÅ•ta 2014. Some Moduli Spaces of Bridgelandâ€™s Stability Conditions.

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. 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 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.

Fourier-Mukai transform and index theory | SpringerLink Given a submersive morphism of complex manifolds f: Xâ†’Y, and a complex vector bundle E on X, there is a relationship between the higher direct images of Îµ (the sheaf of holomorphic sections of E) and. 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 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 duality for K3 surfaces via Bridgeland ... Fourierâ€“Mukai duality is a duality between a variety X and a moduli space of stable sheaves on X, which is a generalization of the duality between an abelian variety X and its dual abelian variety Pic 0 (X).In this article, we shall explain Fourierâ€“Mukai duality for a K3 surface by using Bridgeland stability condition.

fourier mukai transform