

Fourier Mukai And Nahm Transforms In Geometry And Mathematical Physics

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Summary:

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Fourier-Mukai transform - Wikipedia In algebraic geometry, a Fourier-Mukai transform \hat{K} is a functor between derived categories of coherent sheaves $D(X) \rightarrow D(Y)$ for schemes X and Y , which is, in a sense, an integral transform along a kernel object $K \in D(X \times Y)$. FOURIER-MUKAI PARTNERS OF SURFACES IN POSITIVE CHARACTERISTIC FOURIER-MUKAI PARTNERS OF K3 SURFACES IN POSITIVE CHARACTERISTIC 5 Following standard conventions, let $K(1)$ denote the F -isocrystal whose underlying vector space is K , and whose Frobenius action is given by multiplication. 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 for quotient varieties ... A Fourier-Mukai (FM) transform is an exact equivalence $\hat{K} : D(Y) \rightarrow D(X)$ between the bounded derived categories of coherent sheaves on two smooth projective varieties X and Y . Fourier-Mukai Transforms in Algebraic Geometry - Oxford ... This book provides a systematic exposition of the theory of Fourier-Mukai transforms from an algebro-geometric point of view. Assuming a basic knowledge of algebraic geometry, the key aspect of this book is the derived category of coherent sheaves on a smooth projective variety. Fourier-Mukai transform on abelian surfaces | SpringerLink We study moduli spaces of stable sheaves on abelian surfaces whose Mukai vectors are related by a cohomological Fourier-Mukai transform. We show that there is a Fourier-Mukai transform inducing a birational map between them.

FOURIER-MUKAI PARTNERS OF K3 SURFACES IN POSITIVE ... fourier-mukai partners of k3 surfaces in positive characteristic 3 of the appendix is Theorem A.1 concerning the Picard group of the general deformation of a fixed K3 surface from characteristic $p > 0$ to characteristic 0. GV-sheaves, Fourier-Mukai transform, and generic vanishing GV-SHEAVES, FOURIER-MUKAI TRANSFORM, AND GENERIC VANISHING By GIUSEPPE PARESCHI and MIHNEA POPA Abstract. We prove a formal criterion for generic vanishing, in the sense originated by Green. The Coherent-Constructible Correspondence and Fourier ... CCC and Fourier-Mukai Transforms 277 sheaves on MR. Please note that since toric orbifolds are smooth DM stacks, the category $\text{Perf } T(X)$ is the same as the category $\text{Coh } T(X)$, and we will use both notations interchangeably throughout the paper. 1.2 Fourier-Mukai Transforms The coarse moduli space of the toric orbifold X_{Σ} is the toric variety X_{Σ} defined by the simplicial.

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].

fourier mukai transform