

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  $D(X) \hat{\rightarrow} D(Y)$  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** **MAX LIEBLICH AND MARTIN OLSSON** CONTENTS 1. Introduction 1 2. Mukai motive 3 3. Kernels of Fourier-Mukai equivalences 9. 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 and Nahm Transforms in Geometry and ... Fourier-Mukai and Nahm Transforms in Geometry and Mathematical Physics examines the algebro-geometric approach (Fourier-Mukai functors) as well as the differential-geometric constructions (Nahm). Also included is a considerable amount of material from existing literature which has not been systematically organized into a monograph. **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 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 transforms - University of Bonn Basics Fourier-Mukai transform Compositions Fully faithful Equivalences Spherical twists  $X, X_0 =$  smooth projective varieties  $/\mathbb{C}$  and  $E \in D_b(X \times X_0)$ . The Fourier-Mukai transform  $\hat{K} : E$  with Fourier-Mukai kernel  $E$  is the composition  $p$ . **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  $p$  to characteristic 0.

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