

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** **MAX LIEBLICH AND MARTIN OLSSON** **CONTENTS** 1. Introduction 2. Mukai motive 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 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 - University of Bonn** **Basics** **Fourier-Mukai transform** **Compositions** **Fully faithful** **Equivalences** **Spherical twists**  $X, X_0 = \text{smooth projective varieties } /C \text{ and } E \in \text{Db}(X \times X_0)$ . The Fourier-Mukai transform  $\hat{K} : D(Y) \rightarrow D(X)$  with Fourier-Mukai kernel  $E$  is the composition  $p_1^* \hat{K} p_2^*$ . **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 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 and Bridgeland stability ...** **FMTs and stability conditions on abelian threefolds in the literature** of the heart of the stability condition. In this paper we use Fourier-Mukai. **Fourier-Mukai duality for K3 surfaces via Bridgeland ...** **Fourier-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  $\text{Pic}^0(X)$ . In this article, we shall explain Fourier-Mukai duality for a K3 surface by using Bridgeland stability condition.

**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.

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