

# Fourier Mukai And Nahm Transforms In Geometry And Mathematical Physics

## 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 - University of Bonn Basics** **Fourier-Mukai transform Compositions Fully faithful Equivalences Spherical twists**  $X, X_0 = \text{smooth projective varieties}/C$  and  $E \in \text{Db}(X \times X_0)$ . The Fourier-Mukai transform  $\hat{K}: E$  with Fourier-Mukai kernel  $E$  is the composition  $p$ . **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  $p$  to characteristic 0. **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 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.

**M-REGULARITY AND THE FOURIER-MUKAI TRANSFORM** **M-REGULARITY AND THE FOURIER-MUKAI TRANSFORM GIUSEPPE PARESCHI AND MIHNEA POPA** Abstract This is a survey of M-regularity and its applications, expanding on lectures given by the second author at the Seattle conference, in August 2005, and at the Luminy workshop.

fourier mukai transform