

# 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** **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 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 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 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 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].

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.

fourier mukai transform