

# 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 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  $Y$ . Toda : Deformations and Fourier-Mukai transforms Partial Fourier-Mukai transform for integrable systems with applications to Hitchin fibration Arinkin, Dima and Fedorov, Roman, Duke Mathematical Journal, 2016 The Euclid-Fourier-Mukai algorithm for elliptic surfaces Bernardara, Marcello and Hein, Georg, Asian Journal of Mathematics, 2014. Stability and the Fourier-Mukai transform II | Compositio ... Stability and the Fourier-Mukai transform II - Volume 145 Issue 1 - Kenta Yoshioka Skip to main content We use cookies to distinguish you from other users and to provide you with a better experience on our websites.

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 in nLab Anandam Banerjee, Thomas Hudson, Fourier-Mukai transformation on algebraic cobordism, pdf. Discussion of internal homs of dg-categories in terms of refined Fourier-Mukai transforms is in Bertrand Toën, The homotopy theory of dg-categories and derived Morita theory, Invent.

fourier mukai transform