

Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs

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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 $K \in D(X \times Y)$. Most natural functors, including basic ones like pushforwards and pullbacks, are of this type. Fourier-Mukai Transforms in Algebraic Geometry (Oxford ... This seminal text on Fourier-Mukai Transforms in Algebraic Geometry by a leading researcher and expositor is based on a course given at the Institut de Mathematiques de Jussieu in 2004 and 2005. Aimed at postgraduate students with a basic knowledge of algebraic geometry, the key aspect of this book is the derived category of coherent sheaves on. Fourier-Mukai transforms - University of Bonn Basics Fourier-Mukai transform Compositions Fully faithful Equivalences Spherical twists $X, X_0 =$ smooth projective varieties $/C$ and $E \in D_b(X \times X_0)$. The Fourier-Mukai transform \hat{K} with Fourier-Mukai kernel E is the composition p .

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 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. Fourier-Mukai transforms for quotient varieties ... Fourier-Mukai transforms are now well-established as a useful tool for computing moduli spaces of sheaves on smooth projective varieties. More recently there has been further interest in these transforms because of their connection with homological mirror symmetry.

Fourier-Mukai Transforms arXiv:math/0402043v2 [math.AG] 18 ... Given Fourier-Mukai X, Y it is also interesting to precisely classify the Fourier-Mukai transforms $D_b(Y) \hat{\rightarrow} D_b(X)$ (it is usually sufficient to consider $X = Y$). This is generally a much harder problem which has been solved in only a few. Fourier-Mukai Transforms in Algebraic Geometry - ALGANT a Fourier-Mukai transform between the derived categories of two abelian varieties. This leads us to give a very condensed exposition of the ideas of [Orl02], which develops the theory of Fourier-Mukai transforms between abelian varieties, itself an interesting topic. Fourier-Mukai transforms and applications to string theory Fourier-Mukai transform (or its relative version) to act on the spectrum of D-branes. This suggests that the Fourier-Mukai transform is actually a symmetry of string theory. Furthermore, the study of D-branes on Calabi-Yau manifolds inspired numerous mathematical questions, for instance, the search for new Fourier.

FOURIER MUKAI TRANSFORMS AND APPLICATIONS TO STRING ... - UV a relative Fourier-Mukai transform. More generally, D-branes can be interpreted as objects of the derived category, one then expects the Fourier-Mukai transform (or its relative version) to act on the spectrum of D-branes. This suggests that the Fourier-Mukai transform is actually a symmetry of string theory.

fourier mukai transform

geometric fourier transforms mukai