

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  $\mathbb{F} : \mathcal{K} \rightarrow \mathcal{K}$  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  $K \in D(X \times Y)$ . 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 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 - University of Bonn Basics Fourier-Mukai transform Compositions Fully faithful Equivalences Spherical twists  $X, X_0 =$  smooth projective varieties  $/C$  and  $E \in \text{Db}(X \times X_0)$ . The Fourier-Mukai transform  $\mathbb{F} : E \rightarrow E$  with Fourier-Mukai kernel  $E$  is the composition  $p_1^* \circ \mathbb{F} \circ p_2^*$ . 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 from T-Duality Fourier-Mukai transformations, although not called that at the time, were first introduced in S. Mukai's seminal paper "Duality between  $D(X)$  and  $D(X^\vee)$ " with its application to Picard sheaves [19].

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.

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