

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  $D(X) \rightarrow D(Y)$  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  $E \in \text{Db}(X \times X_0)$ . The Fourier-Mukai transform  $\hat{K} : E$  with Fourier-Mukai kernel  $E$  is the composition  $p$ .

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 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 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 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]. The Coherent-Constructible Correspondence and Fourier ... CCC and Fourier-Mukai Transforms 279 elaborate Kawamata's theorem in the equivariant setting from the perspective of constructible sheaves. 2 Toric Orbifolds In [6], Borisov-Chen-Smith introduced toric DM stacks. In this paper we will consider the case of toric orbifolds. A toric orbifold is a toric DM stack with trivial generic stabilizer.

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