

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  $K \hat{\in} D(X \tilde{\times} Y)$ . 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  $E \hat{\in} Db(X \tilde{\times} X_0)$ . The Fourier-Mukai transform  $\hat{K} : E \hat{\rightarrow} F$  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 - 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 1.1 Fourier-Mukai Transforms Fourier-Mukai transformations, although not called that at the time, were first introduced in S. Mukai's seminal paper "Duality between  $D(X)$  and  $D(Y)$ ". Fourier-Mukai transform - Wikipedia Fourier-Mukai transform (Redirected from Mukai vector) 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  $K \hat{\in} D(X \tilde{\times} Y)$ . Fourier-Mukai transform in nLab 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. Math. 167 (2007), 615-667.

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