

Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs

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## Summary:

Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs Pdf Download Free added by Ryder Anderson on December 17 2018. It is a file download of Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs that visitor can be grabbed this with no registration on culturalactionnetwork.org. For your info, this site can not store ebook downloadable Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs at culturalactionnetwork.org, this is only PDF generator result for the preview.

Fourier-Mukai transform - Wikipedia In algebraic geometry, a Fourier-Mukai transform  $\hat{K}$  is a functor between derived categories of coherent sheaves  $D^{\text{b}}(X)$  and  $D^{\text{b}}(Y)$ , which is, in a sense, an integral transform along a kernel object  $K \in D^{\text{b}}(X \times Y)$ . Most natural functors, including basic ones like pushforwards and pullbacks, are of this type. These kinds of functors were introduced by Mukai in order to prove an equivalence between the derived categories of coherent sheaves on an abelian variety and its dual. That. 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  $X, X_0 = \text{smooth projective varieties} / C$  and  $E \in D^{\text{b}}(X \times X_0)$ . The Fourier-Mukai transform  $\hat{K} : D^{\text{b}}(X) \rightarrow D^{\text{b}}(X_0)$  with Fourier-Mukai kernel  $E$  is the composition  $p_1^* E \rightarrow p_2^* E$ .

Fourier-Mukai Transforms arXiv:math/0402043v2 [math.AG] 18 ... equivalence resembles Fourier-transform and is now known as a Fourier-Sato transform. The first purely algebro-geometric derived equivalence seems to appear in [53] where it is shown that an abelian variety  $A$  and its dual  $A^\vee$  have equivalent derived categories of coherent sheaves. Again the equivalence is similar to a Fourier-transform and is therefore called a Fourier-Mukai transform. 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 transform - Wikipedia Fourier-Mukai transform (Redirected from Mukai vector ) In algebraic geometry, a Fourier-Mukai transform  $\hat{K} : D^{\text{b}}(X) \rightarrow D^{\text{b}}(Y)$  is a functor between derived categories of coherent sheaves  $D^{\text{b}}(X)$  and  $D^{\text{b}}(Y)$  for schemes  $X$  and  $Y$ , which is, in a sense, an integral transform along a kernel object  $K \in D^{\text{b}}(X \times Y)$ .

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 transform

geometric fourier transforms mukai