

Fourier Mukai Transforms In Algebraic Geometry Oxford Mathematical Monographs

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Summary:

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Fourierâ€™Mukai transform - Wikipedia In algebraic geometry, a Fourierâ€™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.

Fourierâ€™Mukai transforms - University of Bonn Basics Fourierâ€™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 Fourierâ€™Mukai transform \hat{E} with Fourierâ€™Mukai kernel E is the composition p . Fourierâ€™Mukai transforms for quotient varieties ... Fourierâ€™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 and Nahm Transforms in Geometry and ... Fourierâ€™Mukai and Nahm Transforms in Geometry and Mathematical Physics examines the algebro-geometric approach (Fourierâ€™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 - 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.

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