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 Î¦ K is a functor between derived categories of coherent sheaves D(X) â†’ D(Y) for schemes X and Y, which is, in a sense, an integral transform along a kernel object K âˆˆ D(XÃ—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. Fourierâ€“Mukai transforms - University of Bonn Basics Fourierâ€“Mukai transform Compositions Fully faithful Equivalences Spherical twists X,X0 = smooth projective varieties /C and E âˆˆ Db(X Ã—X0). The Fourierâ€“Mukai transform Î¦ E with Fourierâ€“Mukai kernel E is the composition p.

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 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.

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 transform
geometric fourier transforms mukai