Fourier Mukai And Nahm Transforms In Geometry And Mathematical Physics

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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. FOURIER-MUKAI PARTNERS OF SURFACES IN POSITIVE CHARACTERISTIC FOURIER-MUKAI PARTNERS OF K3 SURFACES IN POSITIVE CHARACTERISTIC 5 Following standard conventions, let K(1) denote the F-isocrystal whose un-derlying vector space is K, and whose Frobenius action is given by multiplica. big picture - Heuristic behind the Fourier-Mukai transform ... The Fourier-Mukai transform in algebraic geometry gets its name because it at least superficially resembles the classical Fourier transform. (And of course because it was studied by Mukai.) Let me give a rough picture of the Fourier-Mukai transform and how it resembles the classical situation.

Fourierâ€“Mukai transforms for quotient varieties ... A Fourierâ€“Mukai (FM) transform is an exact equivalence Φ : D (Y) D (X) between the bounded derived categories of coherent sheaves on two smooth projective varieties X and Y. 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 Φ E with Fourierâ€“Mukai kernel E is the composition p. Fourierâ€“Mukai transform on abelian surfaces | SpringerLink We study moduli spaces of stable sheaves on abelian surfaces whose Mukai vectors are related by a cohomological Fourier-Mukai transform. We show that there is a Fourier-Mukai transform inducing a birational map between them.

Fourierâ€“Mukai duality for K3 surfaces via Bridgeland ... Fourierâ€“Mukai duality is a duality between a variety X and a moduli space of stable sheaves on X, which is a generalization of the duality between an abelian variety X and its dual abelian variety Pic 0 (X).In this article, we shall explain Fourierâ€“Mukai duality for a K3 surface by using Bridgeland stability condition. Fourier{Mukai transforms and Bridgeland stability ... FMTs and stability conditions on abelian threefolds in the literature) of the heart of the stability condition. In this paper we use Fourier{Mukai.

fourier mukai transform