

Fourier Mukai And Nahm Transforms In Geometry And Mathematical Physics

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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  $D(X) \rightarrow D(Y)$  for schemes  $X$  and  $Y$ , which is, in a sense, an integral transform along a kernel object  $K \in D(X \times Y)$ . 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 underlying vector space is  $K$ , and whose Frobenius action is given by multiplication. 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.

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 for quotient varieties ... A Fourier-Mukai (FM) transform is an exact equivalence  $\hat{K} : D(Y) \rightarrow D(X)$  between the bounded derived categories of coherent sheaves on two smooth projective varieties  $X$  and  $Y$ . Fourier-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.

The Coherent-Constructible Correspondence and Fourier-Mukai Transforms ... CCC and Fourier-Mukai Transforms 277 sheaves on MR. Please note that since toric orbifolds are smooth DM stacks, the category  $\text{Perf } T(X)$  is the same as the category  $\text{Coh } T(X)$ , and we will use both notations interchangeably throughout the paper. 1.2 Fourier-Mukai Transforms The coarse moduli space of the toric orbifold  $X_{\Sigma}$  is the toric variety  $X_{\Sigma}$  defined by the simplicial. FOURIER-MUKAI PARTNERS OF K3 SURFACES IN POSITIVE ... fourier-mukai partners of k3 surfaces in positive characteristic 3 of the appendix is Theorem A.1 concerning the Picard group of the general deformation of a fixed K3 surface from characteristic  $p$  to characteristic 0.

fourier mukai transform