

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 $\hat{F}: D(X) \rightarrow D(Y)$ 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 by q . **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 for quotient varieties ... A Fourier-Mukai (FM) transform is an exact equivalence $\hat{F}: D(Y) \rightarrow D(X)$ between the bounded derived categories of coherent sheaves on two smooth projective varieties X and Y . **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 $E \in \text{Db}(X \times X_0)$. The Fourier-Mukai transform $\hat{F}: E$ with Fourier-Mukai kernel E is the composition p . **Fourier-Mukai and Nahm Transforms in Geometry and ...** **Fourier-Mukai and Nahm Transforms in Geometry and Mathematical Physics** examines the algebro-geometric approach (Fourier-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 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. **Fourier-Mukai and Nahm Transforms in Geometry and ...** **Fourier-Mukai and Nahm Transforms in Geometry and Mathematical Physics** examines the algebro-geometric approach (Fourier-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.

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