

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** 3 In section 9 we prove statement (2) in Theorem 1.1. Our proof involves deforming to characteristic 0, which in particular is delicate for supersingular K3 surfaces. Finally there is an appendix containing a technical result about versal deformation. **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 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. **GV-sheaves, Fourier-Mukai transform, and generic vanishing** **GV-SHEAVES, FOURIER-MUKAI TRANSFORM, AND GENERIC VANISHING** By GIUSEPPE PARESCHI and MIHNEA POPA Abstract. We prove a formal criterion for generic vanishing, in the sense originated by Green and Lazarsfeld and pursued further by Hacon, but in the context of an arbitrary Fourier-Mukai correspondence. **Fourier-Mukai transforms - University of Bonn Basics** **Fourier-Mukai transform Compositions Fully faithful Equivalences Spherical twists** $X, X_0 = \text{smooth projective varieties} / \mathbb{C}$ and $E \in D(X \times X_0)$. The Fourier-Mukai transform \hat{E} with Fourier-Mukai kernel E is the composition p .

Fourier-Mukai transforms for quotient varieties ... Fourier-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 transforms and applications to string theory** aspects of the Fourier-Mukai transforms for them. We also define spectral covers and so prepare further applications in Section 7. The computation of the topological invariants of the Fourier-Mukai transform is given in section 5. Section 6 is devoted to the application of the Fourier-Mukai transform to certain moduli.

fourier mukai transform