

Derived Categories of Coherent Sheaves and Phantoms

April 24, 2013

- 25.04.13** Derived and triangulated categories [GM]; Exceptional collections and semi-orthogonal decompositions in derived categories of coherent sheaves [Bo], [BK], [BO1]
- 02.05.13** More on $D^b(X)$. In particular: Serre functor; Mutations of exceptional collections [Bo], [BK]
- 09.05.13** No talk (Christi Himmelfahrt)
- 16.05.13** Derived categories of projective bundles, blow ups, products [BO1], [Or]
- 23.05.13** Derived category determines the variety when $K > 0$ or $K < 0$ [BO1], [BO2]; Example of $K = 0$: Dual Abelian varieties are derived equivalent [Mu]
- 30.05.13** No talk (Fronleichnam)
- 06.06.13** Hochschild homology and cohomology: HKR theorem, Morita invariance and additivity [Gi], [Ka1], [Ka2], [Kel], [Kuz]
- 13.06.13** Quasi-phantoms on the Beauville surface [GS]
- 20.06.13** K -motives and phantoms on product fourfolds [GO]

References

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