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Fourier-Mukai transform on abelian varieties and abelian fibrations

Abstract

In this talk, we going to explain the construction of Fourier-Mukai transform on abelian varieties and some abelian fibration. We then going to explain some application of this machinery to the study of linear series on abelian varieties and some varieties related to abelian variety. For example, if X is a projective threefold of general type with $q(X) > 0$, then $|7K_X|$ defines a birational map.