
Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

講題 Introduction to the upper shriek

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Abstract

The development of the upper shriek functors has occupied a central role in the formalism of Grothendieck duality. Nowadays, the functor has become an inevitable gadget in the categorical approach to algebraic geometry, symplectic geometry, and the geometric Langlands program. In this talk we will introduce the definition and emphasize its appearance in the homological algebra of triangulated categories. If time permits, we wish to go over Neeman's ingenious proof of the general existence of the upper shriek functors.

