



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 29. Januar 2019

17 Uhr s.t., Geom H4

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Sheaf-theoretic models of the Fukaya category and homological mirror symmetry of toric Calabi-Yau threefolds

Abstract:

I will give an introduction to Homological Mirror Symmetry. One of the main hurdles in establishing HMS is that the Fukaya category is notoriously hard to compute in general. In the case of exact symplectic manifolds, however, the Fukaya category has good local-to-global properties. This allows us to apply powerful sheaf-theoretic methods to symplectic geometry. I will explain applications of this point of view to Hori-Vafa mirror symmetry for toric Calabi-Yau threefolds.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.