

Seminari de Geometria Algebraica 2008/2009 (UB-UPC)

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A glimpse at the moduli space of triangulated categories

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Kontsevich, in his ICM'94 talk, stated that his Homological Mirror Symmetry conjecture is equivalent to the concurrence of two points in the same connected component of the moduli space of triangulated categories, "whatever it means" (sic). The recent development of homotopical algebraic geometry allows a precise definition of such a moduli space. Without getting into technicalities we will present a description of the spaces of algebraic and classical triangulated structures over a fixed k -linear category, k a field, with given suspension functor. We will also comment on the map relating these spaces.
