

Seminar on mirror symmetry and representation theory

Tuesday, April 25, 5:00-6:30, MIT, Room 2-132.

Triangulated categories of singularities and B-branes in Landau-Ginzburg models (continued)

by Rina Anno (Harvard).

Abstract. Let X be the affine space \mathbf{A}^N and W be a homogeneous polynomial of degree D . Then one can establish a relation between the triangulated category of graded B -branes in the Landau-Ginzburg model (X, W) and the bounded derived category of coherent sheaves on the hypersurface $W = 0$. This follows from a more general result involving graded triangulated categories of singularities $\mathbf{D}_{Sg}^{gr}(A)$ (for a Gorenstein algebra A) as an intermediate object. After Orlov's work [math.AG/0503632](https://arxiv.org/abs/math/0503632).

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