

1123-14-187

**Jonathan Block, Julian Holstein and Zhaoting Wei\*** (zwei3@kent.edu). *Twisted complexes and homotopy limits of dg categories.*

Descent data, in general, should be expressed in terms of a homotopy limit. In this talk we study the homotopy limits of some cosimplicial diagrams of dg-categories which arise in algebra and geometry: the homotopy limits are explicitly given by twisted complexes. I will give an informal introduction to twisted complexes and its applications in algebraic geometry. In particular the result can be applied in the study of equivariant dg-categories. This is a joint work with Jonathan Block and Julian Holstein. (Received August 25, 2016)