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Julie Bergner* (jbergner@math.ucr.edu). *Stable homotopy theories and derived Hall algebras.*

Homotopy-theoretic approaches have been useful in recent attempts to associate a version of the Hall algebra to a triangulated category. We'll describe how to obtain such an algebra when the triangulated category is the homotopy category of a stable homotopy theory and satisfies certain finiteness assumptions, then discuss how one might generalize beyond this finitary case. (Received August 25, 2009)