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Anthony Licata*, Dept. of Mathematics, Stanford University, Stanford, CA 94305, and **Sabin Cautis** and **Joel Kamnitzer**. *Categorification via Quiver Varieties*.

H. Nakajima gave a geometric construction of representations of Kac-Moody Lie algebras on the cohomology of quiver varieties. We categorify this construction using derived categories of coherent sheaves on quiver varieties. (Received September 11, 2009)