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Jing Wang* (jxfzwangjing@gmail.com) and **Jozef Przytycki**. *Homology of a Small Category with Functor Coefficients: Definitions and Examples.*

In this talk, I will introduce our joint work with Jozef H. Przytycki on homology of a small category with functor coefficients. Our general definition is motivated by homology of an abstract simplicial complex. In particular, for an abstract simplicial complex category, the homology we introduced here can be considered as homology of its barycentric subdivision. As an example, I will show that Khovanov homology can be realized as homology of a small category with coefficients in a functor onto $Z[X]/X^2$ -Modules. (Received August 26, 2013)