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Harold Matthew Williams* (hwilliams@math.utexas.edu), Austin, TX 78756. *Cluster Integrable Systems and Categorification.*

We discuss recent work relating the study of integrable systems on cluster varieties with the categorification of cluster algebras via representations of quivers with potential. The quiver-theoretic approach provides many new insights into integrability, in particular illuminating its geometric and physical meaning. (Received September 14, 2014)