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Tom Halverson, Arun Ram and Nathaniel Thiem* (thiemn@colorado.edu). *Flavors of q -partition algebras*. Preliminary report.

The partition algebra is a classical example of a diagram algebra that contains many of the other famous combinatorial centralizer algebras as subalgebras. The search for a q -analogue of these algebras leads to an investigation of the various coincidences that make the partition algebra combinatorially tractable. This talk introduces numerous q -analogue candidates and analyzes which desirable characteristics of the partition algebra break or become obscured in each case. (Received August 29, 2016)