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Nicolle Gonzalez* (nicolle@math.ucla.edu) and **Matt Hogancamp**. *A skein-theoretic $A_{q,t}$ algebra*. Preliminary report.

The $A_{q,t}$ algebra was originally introduced by Carlsson and Mellit in their proof to the shuffle conjecture. This algebra arises as an extension of the affine Hecke algebra by certain creation and annihilation operators and has a natural action on a family of polynomial rings. In this talk I will discuss ongoing work entailing a skein-theoretic formulation of the $A_{q,t}$ algebra specialized at $t = q^{-1}$ that recovers the original algebraic formulation and lays the groundwork for a categorical analogue. (Received March 03, 2020)