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Chris Fraser, Michael Gekhtman and Kurt Trey Trampel* (ktrampel@nd.edu). *Biinfinite band matrices and quantum affine algebras*. Preliminary report.

We will review the representation theory of quantum affine \mathfrak{sl}_n at roots of unity. We will then shift to describing the generalized cluster structure of periodic, biinfinite band matrices. We bring these two stories together and describe their connections via cluster theory. (Received September 20, 2021)