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Bach Nguyen, Kurt Trey Trampel* (ktrampel@nd.edu) and **Milen Yakimov**. *Root of unity quantum cluster algebras*.

We will describe the setup for root of unity quantum cluster algebras and give fundamental results such as a version of the Laurent phenomenon and a theorem on specialization of generic quantum cluster algebras. We will review the concept of the discriminant and discuss recent progress to its use in understanding the representation theory of these quantum algebras. (Received September 20, 2021)