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Robert Laugwitz* (robert.laugwitz@rutgers.edu) and **You Qi**. *Categorification of Cyclotomic Integers*.

A basic ingredient in the approach to categorification of small quantum groups proposed by M. Khovanov is to use p -complexes to categorify the cyclotomic integers at a prime root of unity. Based on this approach, \mathfrak{sl}_2 quantum groups were categorified for prime roots of unity by Khovanov–Qi and Elias–Qi.

In this talk, the construction of a triangulated tensor category categorifying cyclotomic integers, which does not require the restriction on the order of the root of unity to be prime, is discussed. (Received September 24, 2018)