1139-18-267 **Robert Laugwitz*** (robert.laugwitz@rutgers.edu) and You Qi. Categorification of cyclotomic rings at non-prime roots of unity. Preliminary report.

M. Khovanov categorified the cyclotomic ring O_n for a prime n = p using the stable category of a truncated polynomial Hopf algebra. This work is closely related to the theory of p-complexes, that is, vector spaces with a differential that does not square to zero, but its p-th power is zero. Using algebras with such differentials, the quantum group at prime roots of unity has been categorified by Khovanov–Qi, Elias–Qi. In this talk, a construction of a triangulated monoidal category categorifying cyclotomic integers that does not require the restriction of n being a prime is discussed. (Received February 13, 2018)