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Neville Fogarty* (neville.fogarty@uky.edu), Department of Mathematics, 715 Patterson Office Tower, University of Kentucky, Lexington, KY 40504. *Idempotents in Skew-Constacyclic Codes.*

A skew-constacyclic code is a submodule of the skew-polynomial ring $\mathbb{F}_q[x; \theta]$ modulo the left ideal generated by a polynomial of the form $x^n - a$. In the classical cyclic case, when $\gcd(n, q) = 1$, each code contains a unique generating idempotent. We discuss potential generalizations of well-known results on idempotents to the skew-constacyclic case. This talk reflects work from the presenter's dissertation under the guidance of his advisor, Dr. Heide Gluesing-Luerssen. (Received September 09, 2015)