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**Cornelia A. Van Cott\*** (cvancott@usfca.edu) and **Stanislav Jabuka**. *Comparing the nonorientable three genus and nonorientable four genus of torus knots.*

We compare the values of the nonorientable three genus (or crosscap number) and the nonorientable four genus of torus knots. In particular, we show that the difference between these two invariants can be arbitrarily large. This contrasts with the orientable case: Seifert proved in 1935 that the orientable three genus of the torus knot  $T(p, q)$  is  $\frac{1}{2}(p-1)(q-1)$ , and subsequently in 1993, Kronheimer and Mrowka proved that the orientable four genus of  $T(p, q)$  is also this value. (Received August 24, 2019)