

1115-57-317 **Peter Feller*** (peter.feller.2@bc.edu). *On the topological slice genus of torus knots.*

We use elementary 3-dimensional topology and Freedman's Disk Theorem to obtain a Seifert matrix criterion that allows to calculate the topological slice genus for many knots. In particular, we show that torus knots with maximal signature are the only torus knots for which the topological slice genus and the three-genus agree. This extends work of Rudolph who first observed that the topological slice genus of most torus knots is strictly smaller than their three-genus. Based on joint work with S. Baader, L. Lewark, and L. Liechi. (Received September 21, 2015)