1173-57-246 **Jonathan Simone***, jsimone7@gatech.edu, and **Fraser Binns**, **Sungkyung Kang** and **Paula Truol**. *Nonorientable 4-ball genus of torus knots.*

The nonorientable 4-ball genus of a knot K in S^3 is the minimal first Betti number of any smoothly embedded nonorientable surface in B^4 bounded by K. This is the nonorientable analog of the 4-ball genus of K (i.e. the minimal genus of any smooth orientable surface in B^4 with boundary K). For torus knots, the 4-ball genus is known, whereas the nonorientable 4-ball genus is not well understood. In this talk, we will give new lower bounds for the nonorientable 4-ball genus of torus knots and calculate the nonorientable 4-ball genus for some infinite families of torus knots. (Received September 21, 2021)