1160-57-288 **Diana Hubbard*** (diana.hubbard@brooklyn.cuny.edu), **K. Kawamuro**, **F. C. Kose**, **G. Martin**, **O. Plamenevskaya**, **K. Raoux**, **L. Truong** and **H. Turner**. *Braids and Slice Genus Bounds.*

Knots in the three-sphere can be represented by braids, which can in turn be thought of as diffeomorphisms of punctured disks. One can ask to what extent properties of such a diffeomorphism dictate topological properties of the corresponding knot. Intuitively, a number called the fractional Dehn twist coefficient measures how much a braid twists about the boundary of the punctured disk. In this talk I will discuss some observations relating the fractional Dehn twist coefficient of a braid to the slice genus of the corresponding knot. This work arose from a research group at the Women in Symplectic and Contact Geometry Workshop held at ICERM in Summer 2019. (Received August 11, 2020)