1163-54-738　　　　　**Brandon Bavier\*** (`bavierbr@msu.edu`). *Geometric Properties of Weakly Generalized Alternating Knots.*

A goal of knot theory is to relate geometric properties of the knot complement to diagrammatic conditions of the knot. When we are working with alternating knots in $S^3$, this can be straightforward. It is possible, though, to generalize alternating knots and get similar results. In this talk, we will introduce a type of generalization, and relate the volume of the knot to diagrammatic quantities by way of skein theory. (Received September 12, 2020)