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**Adam Giambrone\*** ([adam.giambrone@uconn.edu](mailto:adam.giambrone@uconn.edu)). *Ribbon Graphs, Partial Duality, and Homogeneously Adequate States of a Link Diagram.*

The fields of graph theory and knot theory are deeply connected. As observed back in the late 1800s, every (checkerboard-colored) link diagram corresponds to an edge-signed planar graph called the *Tait graph*. Alternatively, each state for a given link diagram can be used to construct a *state ribbon graph*. In this talk, we describe how the Tait graph, state ribbon graphs, and partial duality for state ribbon graphs can be used to provide a method for finding all homogeneously adequate states of a link diagram. (Received September 24, 2017)