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Lowell Abrams* (labrams@gwu.edu) and **Jo Ellis-Monaghan**. *Dualities and Trialities from Ribbon Group Stabilizers*.

The ribbon group acts on cellularly embedded graphs by applying Wilson operations, generated by dualizing and twisting, to individual edges. To account for actions on edge-labeled graphs, we reformulate this action in terms of a semidirect product with the symmetric group on the ribbons. In this context, we show how studying the stabilizers of single-vertex orientable embeddings provides an approach to produce, for example, self-dual and self-trial cellular embeddings that are not necessarily regular. We close with discussion of some results of a computer search for examples. (Received September 21, 2015)