

1145-B5-1545      **Diana S Cheng\*** (dcheng@towson.edu), Department of Mathematics, Towson University, 8000 York Road, Towson, MD 21286, and **Peter Coughlin** (coughlin@econ.umd.edu), Department of Economics, University of Maryland, College Park, College Park, MD 20742. *Applications of hypothetical competition analysis for figure skating team events.*

The International Skating Union conducts a figure skating team event at some major international events, including at the Winter Olympic Games. We provide a fantasy-type method to tabulate the results of a figure skating team event. We show how this method is correlated with the results of the 2014 and 2018 Winter Olympic Games team events that were actually conducted. We also show how this method can be applied to assist with team roster decision making for future competitions and to answer hypothetical questions about past competitions. (Received September 23, 2018)