1145-91-1333   **Kelly A Rooker*** (`kelly.rooker@jhuapl.edu`). *Donald Trump vs. Kim Jong-Un: Can Game Theory Help Explain Their Nuclear Relationship?* Preliminary report.

In August 2018, the Johns Hopkins University Applied Physics Laboratory (JHU/APL) and the United States Department of State organized and hosted a workshop, meant to address the general question, "Is game theory useful to policymakers in the modern age?" In particular, this workshop focused on the current North Korean nuclear crisis. It brought together over 40 people, including officials from the U.S. Department of State, U.S. Department of Defense, and prominent game theorists and nuclear deterrence experts from across the country. First, I will show how the rhetoric of Donald Trump and Kim Jong-Un can be viewed as a 2-person game. Then, I will highlight previous work which has applied game theory to the North Korean nuclear crisis. Finally, I will conclude with insights gained from this workshop. Among other things, these insights will address collaboration between academics and policymakers, the potential utility of applying game theory to the North Korean nuclear crisis, where game theoretic methods can be most successful, and where game theory methods often fail. (Received September 21, 2018)