1145-06-2079   **Zeinab Bandpey*** (`zeinab.bandpey@morgan.edu`), 1700 E cold Spring Lane, Baltimore, MD 21251. *Jonathan Farley's Mathematical Terror Theory: The Structure of Perfect Terrorist Cells with a Single Leader.*

Terrorist cells are modeled as finite partially ordered sets. This paper determines the structure of the terrorist cell most likely remain intact if a subset of its members is captured at random, provided that the cell has a single leader and no member has more than b immediate subordinates. Farley solved the problem for the case b=2, and Campos, Chvátal, Devroye, and Taslakian (the chairman of Stanford University's Computer Science Department at one time called Vasek Chvátal "one of the two best young combinatorialists in the world") solved the problem for class of trees. (Received September 24, 2018)