

1116-VW-2263 **Tomas J McIntee*** (tomas.mcintee@gmail.com), 1120 East Main Street, Radford, VA 24141. *A Geometric Classification of Strategic Effects Resembling Duverger's Law*. Preliminary report.

A method of geometrically analyzing the vulnerability of elections to strategic manipulation is demonstrated and used to compare all possible positional voting systems, with and without majority runoff stages, for $n = 3$ candidates. An informational response dynamic is exhibited, which shows an effect reminiscent of Duverger's Law for plurality elections, and also for antiplurality elections with a majority runoff stage. A corresponding opposite dynamic is found for antiplurality elections and plurality elections with majority runoff stages. Further results are given for $n \geq 3$ candidates qualitatively via inductive arguments. (Received September 22, 2015)