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**Benjamin Peet\*** (bpeet@stmartin.edu), St. Martin's University, 5000 Abbey Way, Lacey, WA 98503. *k-Configurations and Superconfigurations*. Preliminary report.

This paper begins by extending the notion of a configuration of points and lines to a configuration of points and planes. We then proceed to investigate a further extension to the notion of points and  $k$ -planes ( $k$ -dimensional planes) which we refer to as  $k$ -configurations. Then, the notion of a superconfiguration of points, lines, and planes is introduced, where the points and lines form a (1-)configuration; the lines and planes form a (1-)configuration; and the points and planes form a 2-configuration. We present a number of examples as well as computing the number of possible symmetric 2-configurations when each plane contains 3 points. (Received September 09, 2019)