1146-52-216 **T Bisztriczky*** (tbisztri@ucalgary.ca) and **Deborah Oliveros**. *Self-dual Polytopes and Extremal Configurations.* Preliminary report.

Let V be a set (configuration) of n>d points in the Euclidean d-space, and e(V) denote the number of times V attains its diameter. We say that V is extremal if e(V) is the maximum of e(W) for any set W of n points in the Euclidean d-space. It is known that extremal configurations and self-dual d-polytopes are connected via ball-polytopes, and we examine this connection. (Received January 22, 2019)