1114-94-274 Maaaki Harada, Sendai, Japan, Ethan Novak, Houghton, MI 49931, and Vladimir D Tonchev* (tonchev@mtu.edu), Houghton, MI 49931. The weight distribution of the self-dual [128,64] polarity design code. Preliminary report.

The weight distribution of the binary self-dual [128,64] code being the extended code of the code spanned by the incidence vectors of the blocks of the polarity design in P G(6, 2) is computed. The extended code has the same weight distribution as the 3rd order Reed-Muller code of length 128. (Received August 30, 2015)