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**Vladimir D Tonchev\*** (tonchev@mtu.edu), Michigan Technological University, 1400 Townsend Drive, 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  $C^*$  of the code spanned by the incidence vectors of the blocks of the polarity design in  $PG(6, 2)$  is computed. The code  $C^*$  has the same weight distribution as the 3rd order Reed-Muller code of length 128. (Received July 23, 2015)