Generalized Weighing Matrices and Optimal Codes 2021 CMS Winter Meeting

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Abstract

Balanced generalized weighing matrices with classical parameters are applied in the construction of new optimal constant weight q-ary codes. It is shown that these codes can be assumed to be generated by a single codeword.

This is a joint work with Hadi Kharaghani, Sho Suda, and Vlad Zeitsev.

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