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Some Circulant Generalized Weighing matrices

An elementary construction produces new classes of circulant generalized weighing matrices of so-called "Butson type" (i.e., whose entries are complex roots of unity) with parameters $GW(nN, n^2)$ for all positive integers n, N such that $n \leq N$. We also discuss some generalizations and context. This was work done with Warwick de Launey before his recent death.