



Appendage to: Multi-part balanced incomplete-block designs

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Soon after the publication of Bailey and Cameron (2019), we became aware of the paper by Martin (1998). This paper uses the name ‘mixed block designs’ for the special case of our designs with exactly two parts, but slightly generalized to allow $\lambda_{ii} = 0$ for either $i = 1$ or $i = 2$. It was contemporaneous with Mukerjee (1998), but independent of that and of Sitter (1993). Furthermore, relaxing the conditions that k_1 and k_2 are both constant across blocks to the condition that the total $k_1 + k_2$ is constant across blocks gives the ‘balanced bipartite block designs’ introduced by Kageyama and Sinha (1988) and Sinha and Kageyama (1990).

The first four constructions in Bailey and Cameron (2019, Sect. 2) are given in Martin (1998, Sect. 1). The lower bound in our Eq. (4) is given in Theorem 2.2 of Martin (1998).

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