# ON THE CONNECTEDNESS OF PARTIALLY BALANCED BLOCK DESIGNS*

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**Abstract.**   The necessary and sufficient conditions for $m$-associate partially balanced block (PBB) designs to be connected are given. This generalizes the criterion for $m$-associate partially balanced incomplete block (PBIB) designs, which has originally been established by Ogawa, Ikeda and Kageyama (1984, *Proceedings of the Seminar on "Combinatorics and Applications"*, 248–255, Statistical Publishing Society, Calcutta).

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