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*Constructions for Retransmission Permutation Arrays*

A recently introduced technique for resolving overlapping channel transmissions uses an interesting new type of combinatorial structure. We define a class of combinatorial structures, which we term "Retransmission Permutation Arrays" (or RPA's), that generalize the model. These RPA's turn out to be arrays that are row latin and satisfy an additional property in each of the top two corners. We show that RPA's exist for all possible orders and define some extensions having additional properties.