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*Projection—Product and Asymptotic Constructions of Mixed Level Covering Arrays*

When the parameters  $k$  and  $v_i$  of a strength 2 mixed level covering arrays (MCA) are unknown ahead of time, the best single approach for constructing an MCA is to use a combination of the product construction and projection construction on orthogonal arrays from finite fields. The product construction and projection construction can very naturally be combined and we show that it is preferable to perform the product construction after the projection construction when the number of disjoint rows are 1 or  $v$  and conjecture that this is always the preferred option.