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Evaluating Single Approach Constructions for Arbitrary Strength 2 Covering Arrays

A fundamental tool in any testing suite toolbox would be a construction which can work for any arbitrary set of parameters. When the parameters k and v of a strength 2 covering arrays (CA) are unknown ahead of time, the best single approach for constructing a CA is to use a combination of the product construction and projection construction on orthogonal arrays from finite fields. We will also look at higher strength constructions.