

Abstract

On the recursive constructions of large sets of t -designs

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In this talk, I will review the recursive method for constructing large sets of t -designs based on an approach called “partitionable sets”, with a special attention to large sets of prime sizes for which a powerful method is available. The notion of root cases of large sets will also be discussed. Root cases are initial points for recursive constructions, which can not be obtained by the existing recursive methods. A blending of recursive and direct methods has to be utilized. To demonstrate this, we present some new large sets.