Shiftable Heffter Spaces

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The notion of a Heffter array [1] is equivalent to a pair of orthogonal Heffter systems. In [2, 3] we proved the existence of a set of r mutually orthogonal Heffter systems for any r. Such a set is equivalent to a resolvable partial linear space of degree r whose parallel classes are Heffter systems: we call such a design a *Heffter space*. In this talk we focus on *shiftable* Heffter spaces [4] presenting a direct construction, making use of pandiagonal magic squares, and a recursive one.

References

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