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Generalized packing designs with block size 5

In an earlier paper, Burgess and the speaker introduced the notion of generalized packing designs, and classified (with a few exceptions) those with block size 3 and 4. In this talk, we will discuss generalized packings with block size 5, where very quickly one arrives at some fascinating but challenging open problems: this includes questions about resolvable designs, orthogonal resolutions, generalized Howell designs and Latin rectangles.

This is joint work with Andrea Burgess and Peter Danziger.