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Counting packings of generic subsets in finite groups

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A packing of subsets $\mathcal S_1,..., \mathcal S_n$ in a group G is a sequence $(g_1,...,g_n)$ such that $g_1\mathcal S_1,...,g_n\mathcal S_n$ are disjoint subsets of G. We give a formula for the number of packings if the group G is finite and if the subsets $\mathcal S_1,...,\mathcal S_n$ satisfy a genericity condition.

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