

Disjoint q -Steiner systems in dimension 13

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We report the computer construction of 1316 mutually disjoint 2 - $(13, 3, 1)_2$ subspace designs. By combining disjoint designs and using supplementary subspace designs we conclude that subspace designs exist for $1 \leq \lambda \leq 2047$.

1 Introduction

Let V be a vector space of dimension v over a finite field $\text{GF}(q)$. For simplicity, a subspace of V of dimension k will be called a k -subspace. A (simple) t - $(v, k, \lambda)_q$ subspace design $\mathcal{D} = (V, \mathcal{B})$ consists of a set \mathcal{B} of k -subspaces of V , called blocks, such that each t -subspace of V lies in exactly λ blocks. This notion is a vector space analog of combinatorial t -designs on finite sets. For that reason, subspace designs are also called q -analogs of designs. In the special case of $\lambda = 1$, t - $(v, k, 1)_q$ subspace designs are called q -Steiner systems $S(t, k, v)_q$.

While combinatorial t -designs and Steiner systems have been studied since the 1830s and have a rich literature [9], the notion of subspace designs has been introduced by Ray-Chaudhuri [1], Cameron [6, 7] and Delsarte [10] in the 1970s.

In 1987, Thomas [19] constructed the first non-trivial subspace design for $t = 2$. Since then, more subspace designs have been constructed, see [3, 4, 5, 11, 12, 16, 17, 18]. In [2] the first q -Steiner systems for $t = 2$ were constructed. Before, it was conjectured [15] that q -Steiner systems only exist for $t = 1$. In finite geometry, $S(1, k, v)_q$ q -Steiner systems are called $(k - 1)$ -spreads and known to exist if and only if $k - 1$ divides $v - 1$. As for combinatorial designs, the necessary conditions for an $S(2, 3, v)_q$ to exist are

$$v \equiv 1, 3 \pmod{6}.$$

The q -Steiner systems in [2] have parameters $S(2, 3, 13)_2$. For $v = 13$, a partition of the set of 3-subspaces of $\text{GF}(2)^{13}$ into $S(2, 3, 13)_2$ q -Steiner systems would consist of 2047 such subspace designs. Here, we present a set of 1316 mutually disjoint $S(2, 3, 13)_2$ designs, i.e. no 3-subspace appears in more than one of the designs.

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2 Preliminaries

The set of all k -subspaces of V is called the *Graßmannian* and is denoted by $\begin{bmatrix} V \\ k \end{bmatrix}_q$. The number of all k -subspaces of V is given by the Gaussian binomial coefficient

$$\# \begin{bmatrix} V \\ k \end{bmatrix}_q = \begin{bmatrix} v \\ k \end{bmatrix}_q = \begin{cases} \frac{(q^v-1)\cdots(q^{v-k+1}-1)}{(q^k-1)\cdots(q-1)} & \text{if } 0 \leq k \leq v; \\ 0 & \text{else.} \end{cases}$$

The Graßmannian $\begin{bmatrix} V \\ k \end{bmatrix}_q$ is trivially a subspace design for all $t \leq k$ with parameters t - $(v, k, \begin{bmatrix} v-t \\ k-t \end{bmatrix}_q)_q$. It is also obvious that for any t - $(v, k, \lambda)_q$ subspace design $\mathcal{D} = (V, \mathcal{B})$, the supplementary design $(V, \begin{bmatrix} V \\ k \end{bmatrix}_q \setminus \mathcal{B})$ is again a (simple) subspace design with parameters t - $(v, k, \begin{bmatrix} v-t \\ k-t \end{bmatrix}_q - \lambda)_q$.

3 The construction of disjoint $S(2, 3, 13)_2$

A promising method to find t - $(v, k, \lambda)_q$ designs is the well-known Kramer-Mesner method [14]. A t - $(v, k, \lambda)_q$ subspace design with a prescribed group $G \leq \text{GL}(v, q)$ of automorphisms is equivalent to a 0/1-solution x of the Diophantine system of equations $A^G x = (\lambda, \dots, \lambda)^\top$ where A^G is the G -incidence matrix between the G -orbits on t -subspaces and G -orbits on k -subspaces. The entry $a(T, K)$ of A^G whose row corresponds to the G -orbit with representative T and whose column corresponds to the G -orbit with representative K counts the number of k -subspaces in the orbit of K containing the subspace T .

The normalizer of the Singer cycle group $G = \langle \phi, \sigma \rangle \leq \text{GL}(13, 2)$ is generated by the following two matrices:

$$\phi = \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \end{pmatrix} \quad \sigma = \begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

The order of G is $(2^{13} - 1) \cdot 13 = 106483$. The incidence matrix A^G between 2- and 3-subspaces has 105 rows and 30705 columns. In [2] the corresponding Diophantine linear system $A^G x = (1, \dots, 1)^\top$ could be solved using the dancing links algorithm by Knuth [13]. Any solution yields a q -Steiner systems $S(2, 3, 13)_2$ consisting of 15 block orbits giving rise to 1 597 245 blocks. Since G is a maximal subgroup of $\text{GL}(13, 2)$ all q -Steiner systems constructed in this way are mutually non-isomorphic.

With a slight modification of the Kramer-Mesner approach we can construct disjoint subspace designs having no blocks in common [8]. We just have to add a further row to the Diophantine system of equations $A^G x = (\lambda, \dots, \lambda)^\top$ in the following way:

$$\begin{pmatrix} A^G \\ \cdots y \cdots \end{pmatrix} \cdot x = \begin{pmatrix} \lambda \\ \vdots \\ \lambda \\ 0 \end{pmatrix}$$

The vector y is indexed by the G -orbits on $\binom{V}{k}_q$ corresponding to the columns of A^G . The entry indexed by the G -orbit containing K is set to one if the orbit of K has already been covered by a selected t - $(v, k, \lambda)_q$ design. Otherwise it is zero. In every iteration step the vector y has to be updated.

With this approach 1316 disjoint $S(2, 3, 13_2)$ q -Steiner systems could be constructed.

Since the union of blocks of λ mutually disjoint such designs is a simple 2 - $(13, 3, \lambda)_2$ design and using supplementary designs, we can conclude that simple 2 - $(13, 3, \lambda)_2$ subspace designs exist for all possible values $1 \leq \lambda \leq 2047 = \binom{13-2}{3-1}_2$.

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Appendix

In order to represent a G -invariant design it is sufficient to list G by its generators and a set of representatives of the selected orbits of G on $\begin{bmatrix} V \\ k \end{bmatrix}$. For a compact representation we will write all $n \times m$ matrices X over $\text{GF}(q)$ with entries $x_{i,j}$, whose indices are numbered from 0, as vectors of integers

$$\left[\sum_{j=0}^{m-1} x_{0,j}q^j, \dots, \sum_{j=0}^{m-1} x_{n-1,j}q^j \right].$$

In the following we list the orbit representatives of all disjoint $S(2, 3, 13)_2$ q -Steiner systems. Since G is acting transitively on the 1-subspaces of $\text{GF}(2)^{13}$ we can choose orbit representatives of the blocks such that they all contain the vector

$$(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1).$$

That means, in the following listing, one has to add the entry 4096 to every pair. For instance the first pair [416, 2048] is an abbreviation for the subspace generated by

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}$$

1. [416, 2048], [32, 3072], [1344, 512], [3440, 1536], [8, 3328], [3284, 3840], [3428, 128], [617, 2176], [1038, 3200], [1113, 2688], [1338, 576], [3389, 2368], [317, 2880], [1448, 192], [774, 3232]
2. [1120, 2048], [2920, 3072], [144, 512], [408, 2560], [212, 1536], [1673, 2304], [551, 3328], [131, 768], [713, 2816], [1294, 3200], [2588, 1664], [1127, 3712], [3455, 3968], [3346, 3136], [1199, 1600]
3. [1104, 2048], [2176, 3072], [2336, 512], [3080, 2560], [2180, 2304], [3239, 3328], [3770, 1792], [117, 128], [2161, 3200], [2817, 1920], [2411, 3968], [2104, 576], [2720, 1600], [3381, 1984], [2710, 3104]

4. [720, 2048], [2592, 3072], [424, 2560], [264, 1536], [470, 3584], [1026, 3328], [35, 1792], [2668, 3840], [1887, 128], [3594, 2176], [2347, 3200], [2874, 2688], [2344, 1664], [1367, 3712], [4003, 3648]
5. [464, 2048], [320, 3072], [3264, 512], [1260, 3584], [1038, 2304], [1099, 3328], [2158, 1792], [2917, 2176], [3633, 3200], [871, 1920], [815, 2112], [3884, 3136], [1200, 1600], [3202, 3648], [2014, 2080]
6. [1488, 2048], [2432, 3072], [2320, 1536], [2080, 3584], [13, 2304], [1052, 3328], [1234, 768], [1657, 3840], [3183, 128], [833, 2176], [1036, 3200], [1850, 2944], [799, 576], [1964, 1600], [1829, 1984]
7. [624, 2048], [2368, 3072], [2448, 512], [3428, 2560], [454, 1536], [2599, 2304], [3205, 3328], [1688, 768], [2146, 2816], [1556, 3840], [3869, 2688], [3435, 1664], [2387, 1408], [1310, 3648], [1931, 2880]
8. [368, 2048], [2688, 3072], [96, 512], [3392, 2560], [1083, 1536], [516, 2304], [2162, 3328], [239, 2816], [3795, 3840], [3342, 1408], [792, 3648], [3485, 832], [2835, 3264], [3772, 1472], [2998, 3520]
9. [1864, 2048], [704, 3072], [2496, 512], [184, 1536], [3219, 3584], [2237, 2304], [73, 3328], [1578, 768], [2581, 2816], [2577, 3200], [2678, 2688], [1882, 3712], [2891, 1408], [3129, 1984], [1734, 3232]
10. [456, 2048], [640, 3072], [3312, 512], [3468, 3584], [2087, 3328], [1753, 2816], [110, 1792], [117, 2176], [76, 2688], [3122, 2944], [2106, 1920], [3329, 576], [440, 1600], [1800, 3648], [3164, 416]
11. [104, 2048], [2768, 3072], [2120, 512], [1344, 2560], [483, 1536], [3665, 2304], [575, 3328], [1647, 768], [1611, 2816], [44, 1792], [566, 3136], [2577, 3648], [3206, 3392], [3721, 832], [902, 192]
12. [744, 2048], [1408, 512], [328, 2560], [1504, 1536], [3350, 3584], [206, 2304], [2690, 768], [78, 2816], [1133, 1792], [2219, 3840], [3932, 2688], [3944, 1664], [1883, 2944], [1193, 576], [2612, 192]
13. [1304, 2048], [576, 3072], [2368, 512], [3424, 1536], [1639, 2304], [1163, 3328], [3073, 2816], [516, 3840], [1142, 128], [617, 3968], [3094, 3136], [2108, 3904], [2195, 192], [1189, 3264], [1448, 448]
14. [1944, 2048], [2896, 3072], [128, 2560], [1236, 1536], [3243, 3584], [37, 768], [3156, 2816], [2149, 3840], [1100, 2176], [311, 1664], [1812, 3712], [885, 2944], [1793, 1920], [1196, 2112], [150, 576]
15. [2008, 2048], [48, 3072], [1312, 2560], [3540, 1536], [2388, 3584], [1565, 2304], [1053, 768], [1745, 1792], [1599, 2688], [1882, 1664], [2866, 1408], [3923, 3968], [1078, 576], [913, 832], [552, 1472]
16. [1336, 2048], [896, 3072], [496, 2560], [3392, 1536], [1153, 3584], [752, 3328], [3272, 2816], [1551, 1792], [358, 2176], [3343, 3200], [2856, 1664], [3706, 3712], [816, 2944], [2595, 2112], [1552, 192]
17. [1848, 2048], [2784, 3072], [360, 512], [202, 3328], [1572, 2816], [1139, 1792], [1624, 3840], [3884, 128], [2334, 3200], [1376, 3712], [1369, 1408], [1557, 1856], [2488, 3264], [1823, 1824], [3291, 3488]
18. [184, 2048], [2320, 3072], [464, 512], [2070, 2560], [2523, 1536], [3193, 3584], [569, 2304], [3723, 3840], [2341, 128], [1882, 2176], [803, 2688], [338, 3968], [433, 2112], [701, 2368], [3551, 3488]
19. [1144, 2048], [304, 3072], [2544, 512], [474, 2560], [3172, 1536], [132, 3584], [3112, 2304], [3195, 3328], [601, 1792], [1683, 3840], [3115, 2176], [1297, 3712], [1801, 1408], [3585, 1600], [1415, 4032]
20. [1784, 2048], [2384, 3072], [1416, 2560], [208, 1536], [446, 3584], [2808, 2304], [2594, 3328], [99, 768], [378, 2176], [2072, 3200], [3662, 2688], [2356, 1408], [1370, 3968], [1050, 448], [4031, 1472]
21. [1028, 2048], [2288, 3072], [3424, 512], [2318, 2560], [105, 1536], [2555, 3584], [1603, 2304], [3819, 3328], [1646, 2816], [1112, 3840], [2818, 128], [1076, 2688], [3123, 3968], [3210, 2112], [2779, 2464]
22. [132, 2048], [464, 3072], [3520, 512], [52, 2560], [461, 1536], [1025, 2304], [81, 3328], [717, 3840], [318, 128], [2870, 3200], [631, 2688], [3602, 1664], [1542, 1408], [4005, 192], [1047, 2592]
23. [1604, 2048], [928, 3072], [2472, 512], [1328, 2560], [1391, 3584], [1753, 768], [2564, 1792], [2652, 3840], [265, 128], [3091, 3200], [2396, 1664], [3093, 1920], [2855, 192], [3508, 448], [2194, 2720]
24. [676, 2048], [688, 3072], [448, 512], [3545, 1536], [3615, 2304], [1697, 2816], [2673, 1792], [1631, 3840], [3135, 128], [1868, 2176], [1026, 2944], [1574, 2112], [3220, 3136], [1690, 3104], [787, 3232]
25. [356, 2048], [720, 3072], [2480, 512], [3231, 2560], [2326, 1536], [3378, 3584], [2778, 2304], [3080, 768], [3826, 3840], [878, 128], [1580, 2176], [3647, 2688], [3645, 1920], [1927, 3136], [3854, 1600]
26. [148, 2048], [96, 3072], [2288, 512], [3146, 2560], [2501, 1536], [1163, 3584], [1249, 2304], [754, 768], [167, 2816], [1231, 1792], [866, 2176], [306, 2688], [608, 3712], [1600, 1920], [1799, 3392]
27. [916, 2048], [2208, 3072], [280, 2560], [1312, 1536], [1064, 3584], [513, 2304], [746, 3328], [1094, 768], [43, 2816], [3895, 2176], [3917, 3200], [2389, 1664], [1682, 2112], [2821, 3136], [385, 3744]
28. [1940, 2048], [3040, 3072], [3136, 512], [1096, 3584], [2579, 3328], [234, 2816], [2235, 1792], [775, 1664], [2638, 3712], [892, 2944], [621, 3968], [3462, 576], [2738, 832], [790, 1856], [6, 2592]
29. [84, 2048], [2848, 3072], [1296, 512], [306, 2560], [1457, 1536], [3296, 3584], [151, 1792], [2662, 3840], [3955, 128], [1845, 3200], [835, 2688], [1865, 3712], [1112, 1408], [2148, 3968], [1695, 2592]

30. [1972, 2048], [656, 3072], [1328, 512], [132, 2560], [2427, 1536], [1237, 3584], [2201, 2304], [1641, 3328], [3132, 768], [3708, 2816], [2302, 1792], [306, 3200], [887, 1664], [633, 2944], [672, 1472]
31. [1676, 2048], [288, 3072], [1408, 2560], [1608, 2304], [3150, 3328], [2212, 2816], [2159, 1792], [1126, 3840], [300, 128], [2150, 3200], [3188, 1664], [1709, 3136], [3208, 1600], [3241, 3392], [550, 1472]
32. [588, 2048], [440, 3072], [3544, 512], [2274, 1536], [163, 3584], [3104, 3328], [1628, 1792], [3777, 3840], [574, 128], [3867, 3200], [3708, 2688], [3962, 3712], [3405, 1920], [2067, 3968], [2307, 2112]
33. [812, 2048], [2912, 3072], [2200, 512], [3284, 2560], [1356, 1536], [166, 2304], [523, 3328], [2078, 768], [2807, 2816], [1673, 1792], [1610, 128], [2904, 2176], [3950, 3712], [1805, 704], [1675, 1056]
34. [572, 2048], [64, 3072], [3552, 2560], [1160, 1536], [3574, 3584], [749, 2304], [2075, 3328], [85, 1792], [2827, 2176], [1378, 1664], [3660, 2944], [1026, 1920], [1341, 3968], [156, 3520], [2116, 416]
35. [700, 2048], [1008, 3072], [192, 2560], [2228, 1536], [3758, 2304], [3637, 768], [3935, 128], [3609, 3200], [1062, 2688], [315, 1408], [2858, 2944], [2495, 2368], [3114, 2880], [2056, 4032], [1164, 1824]
36. [1468, 2048], [2400, 3072], [3236, 512], [484, 2560], [1306, 1536], [3441, 3584], [2155, 3328], [2653, 768], [566, 2816], [2815, 1792], [1347, 2688], [3498, 2112], [1307, 3136], [3763, 2880], [3974, 4032]
37. [1538, 2048], [352, 3072], [1216, 512], [3260, 2560], [1316, 3584], [1619, 2304], [1581, 2816], [1039, 1664], [2305, 1408], [1037, 1920], [3912, 3968], [2844, 3648], [2221, 2368], [1953, 3904], [2068, 2720]
38. [2018, 2048], [2624, 3072], [1480, 512], [1274, 2560], [1317, 1536], [2133, 3584], [527, 2304], [2107, 768], [3747, 2816], [2105, 3200], [2899, 2688], [4003, 3392], [1700, 3904], [1066, 704], [1967, 1472]
39. [530, 2048], [2864, 3072], [1376, 512], [1112, 2560], [2447, 1536], [2290, 2304], [3159, 3328], [617, 768], [3828, 3840], [2860, 128], [815, 2688], [2170, 1408], [3415, 2944], [410, 704], [2825, 1696]
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