Table 1: Design matrices for 16, 32 and 64-run designs.
(For 16-run designs, it consists of the first 4 rows and 15 columns; for 32-run designs, it consists the first 5 rows and 31 columns, and for 64-run designs, it is the whole matrix. Independent columns are numbered 1, 2, 4, 8, 16 and 32.)

1	**2**	3	**4**	5	6	7	**8**	9	10	11	12	13	14	15	**16**	17	18	19	20	21
1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0
0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1
0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

22	23	24	25	26	27	28	29	30	31	**32**	33	34	35	36	37	38	39	40	41	42
0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1
1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0
0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1
1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1

43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 2: Complete Catalogue of 16-run designs
(Each design consists of columns 1, 2, 4, 8 and those specified in the "Additional Columns". $W = (A_3, A_4, \ldots)$ is the wordlength pattern defined in (1). C is the number of clear 2fi's. Designs for $n = 13, 14, 15$ are unique.)

Design	Additional Columns	W	C
5-1.1	15	0 0 1	10
5-1.2	7	0 1 0	4
5-1.3	3	1 0 0	7
6-2.1	7 11	0 3 0 0	0
6-2.2	3 13	1 1 1 0	6
6-2.3	3 12	2 0 0 1	9
6-2.4	3 5	2 1 0 0	5
7-3.1	7 11 13	0 7 0 0 0	0
7-3.2	3 5 14	2 3 2 0 0	2
7-3.3	3 5 10	3 2 1 1 0	4
7-3.4	3 5 9	3 3 0 0 1	0
7-3.5	3 5 6	4 3 0 0 0	6
8-4.1	7 11 13 14	0 14 0 0 0 1	0
8-4.2	3 5 9 14	3 7 4 0 1 0	1
8-4.3	3 5 10 12	4 5 4 2 0 0	0
8-4.4	3 5 6 15	4 6 4 0 0 1	0
8-4.5	3 5 6 9	5 5 2 2 1 0	2
8-4.6	3 5 6 7	7 7 0 0 1 0	7
9-5.1	3 5 9 14 15	4 14 8 0 4 1 0	0
9-5.2	3 5 10 12 15	6 9 9 6 0 0 1	0
9-5.3	3 5 6 9 14	6 10 8 4 2 1 0	0
9-5.4	3 5 6 9 10	7 9 6 6 3 0 0	0
9-5.5	3 5 6 7 9	8 10 4 4 4 1 0	0
10-6.1	3 5 6 9 14 15	8 18 16 8 8 5 0 0	0
10-6.2	3 5 6 9 10 13	9 16 15 12 7 3 1 0	0
10-6.3	3 5 6 9 10 12	10 15 12 15 10 0 0 1	0
10-6.4	3 5 6 7 9 10	10 16 12 12 10 3 0 0	0
11-7.1	3 5 6 9 10 13 14	12 26 28 24 20 13 4	0
11-7.2	3 5 6 7 9 10 12	13 25 25 27 23 10 3 1	0
11-7.3	3 5 6 7 9 10 11	13 26 24 24 26 13 0 0 1	0
12-8.1	3 5 6 9 10 13 14 15	16 39 48 48 48 39 16 0 0 1	0
12-8.2	3 5 6 7 9 10 11 12	16 17 38 44 52 54 33 12 4 1	0

Table 3: Selected 32-run designs for $n = 6$ to 28.
(Each design consists of columns 1, 2, 4, 8, 16 and those specified in the "Additional Columns". C is the number of clear 2fi's. $W = (A_3, \ldots, A_7)$ when $n < 17$ and $W = (A_3, \ldots, A_6)$ when $n \geq 17$. Designs for n=29, 30 and 31 are unique.)

Design	Additional Columns	W	C
6-1.1	31	0 0 0 1 0	15
7-2.1	7 27	0 1 2 0 0	15
7-2.2	7 25	0 2 0 1 0	9
7-2.3	7 11	0 3 0 0 0	6
7-2.4	3 29	1 0 1 1 0	18
7-2.5	3 28	1 1 0 0 1	12
7-2.6	3 13	1 1 1 0 0	12
7-2.7	3 12	2 0 0 1 0	15
7-2.8	3 5	2 1 0 0 0	11
8-3.1	7 11 29	0 3 4 0 0	13
8-3.2	7 11 21	0 5 0 2 0	4
8-3.3	7 11 19	0 6 0 0 0	0
8-3.4	7 11 13	0 7 0 0 0	7
8-3.5	3 13 22	1 2 3 1 0	13
8-3.6	3 5 30	2 1 2 2 0	18
8-3.7	3 13 21	1 3 2 0 1	10
8-3.8	3 12 21	2 1 2 2 0	16
8-3.9	3 5 26	2 2 1 1 1	12
8-3.10	3 5 25	2 2 2 0 0	12
9-4.1	7 11 19 29	0 6 8 0 0	8
9-4.2	7 11 13 30	0 7 7 0 0	15
9-4.3	7 11 21 25	0 9 0 6 0	0
9-4.4	7 11 13 19	0 10 0 4 0	2
9-4.5	7 11 13 14	0 14 0 0 0	8
9-4.6	3 13 21 26	1 5 6 2 1	9
9-4.7	3 13 21 25	1 7 4 0 3	12
9-4.8	3 12 21 26	2 3 6 4 0	12
9-4.9	3 5 9 30	3 3 4 4 1	15
9-4.10	3 5 10 28	3 3 4 4 1	13

Table 3: continued

Design	Additional Columns	W	C
10-5.1	7 11 19 29 30	0 10 16 0 0	0
10-5.2	7 11 21 25 31	0 15 0 15 0	0
10-5.3	7 11 13 19 21	0 16 0 12 0	0
10-5.4	7 11 13 14 19	0 18 0 8 0	0
10-5.5	3 13 21 25 28	1 14 7 0 7	14
10-5.6	3 13 21 25 30	1 10 11 4 3	8
10-5.7	3 12 21 26 31	2 7 12 7 2	6
10-5.8	3 5 14 22 25	2 8 12 4 2	4
10-5.9	3 5 14 23 26	2 9 9 6 4	5
10-5.10	3 5 9 14 31	3 8 11 4 1	12
11-6.1	7 11 13 19 21 25	0 25 0 27 0	0
11-6.2	7 11 13 14 19 21	0 26 0 24 0	0
11-6.3	3 5 14 22 25 31	2 14 22 8 6	0
11-6.4	3 5 14 22 26 29	2 16 16 12 10	6
11-6.5	3 5 14 22 26 28	2 18 14 8 14	6
11-6.6	3 5 10 23 27 28	3 13 19 11 9	3
11-6.7	3 5 9 22 26 29	3 15 13 15 13	4
11-6.8	3 5 9 22 26 28	3 16 12 12 16	4
11-6.9	3 5 9 14 22 26	3 16 13 12 13	4
11-6.10	3 5 9 14 18 29	4 12 18 12 8	5
12-7.1	7 11 13 14 19 21 25	0 38 0 52 0	0
12-7.2	7 11 13 14 19 21 22	0 39 0 48 0	0
12-7.3	3 5 9 14 22 26 29	3 25 23 27 25	5
12-7.4	3 5 9 14 22 26 28	3 26 22 24 28	5
12-7.5	3 5 10 12 22 27 29	4 20 32 22 20	0
12-7.6	3 5 10 12 22 25 31	4 22 28 20 28	0
12-7.7	3 5 6 15 23 25 30	4 23 28 16 28	0
12-7.8	3 5 9 14 17 22 26	4 25 19 27 31	3
12-7.9	3 5 9 14 15 22 26	4 26 20 24 28	3
12-7.10	3 5 9 14 18 20 31	5 19 29 25 23	2

Table 3: continued

Design	Additional Columns	W	C
13-8.1	7 11 13 14 19 21 22 25	0 55 0 96 0	0
13-8.2	3 5 9 14 17 22 26 28	4 38 32 52 56	4
13-8.3	3 5 9 14 15 22 26 29	4 38 33 52 52	4
13-8.4	3 5 9 14 15 22 26 28	4 39 32 48 56	4
13-8.5	3 5 9 14 15 17 22 26	5 38 28 52 62	2
13-8.6	3 5 10 12 15 22 27 29	6 28 51 42 42	0
13-8.7	3 5 9 14 18 20 24 31	6 29 46 46 50	0
13-8.8	3 5 9 15 18 20 24 30	6 30 44 44 56	0
13-8.9	3 5 9 15 18 20 24 31	7 28 42 50 56	2
13-8.10	3 5 6 9 14 17 26 29	7 29 42 46 56	2
14-9.1	7 11 13 14 19 21 22 25 26	0 77 0 168 0	0
14-9.2	3 5 9 14 15 17 22 26 28	5 55 45 96 106	3
14-9.3	3 5 9 14 15 17 22 23 26	6 55 40 96 116	1
14-9.4	3 5 9 15 18 20 24 30 31	8 42 64 85 112	0
14-9.5	3 5 9 14 15 18 20 24 31	8 42 65 84 108	0
14-9.6	3 5 6 9 14 17 22 26 29	8 43 64 80 112	0
14-9.7	3 5 9 14 15 18 20 24 30	8 43 64 80 112	0
14-9.8	3 5 6 9 14 15 23 26 29	8 45 64 72 112	0
14-9.9	3 5 6 9 14 17 22 26 27	9 42 60 84 118	2
14-9.10	3 5 6 9 14 15 17 26 29	9 43 61 80 114	2
15-10.1	7 11 13 14 19 21 22 25 26 28	0 105 0 280 0	0
15-10.2	3 5 9 14 15 17 22 23 26 28	6 77 62 168 188	2
15-10.3	3 5 9 14 15 17 22 23 26 27	7 77 56 168 203	0
15-10.4	3 5 6 9 14 17 22 26 27 28	10 60 90 141 212	0
15-10.5	3 5 6 9 14 15 17 22 26 29	10 61 90 136 212	0
15-10.6	3 5 6 9 14 15 17 22 26 27	11 60 85 141 222	2
15-10.7	3 5 9 14 18 20 23 24 27 29	12 49 108 144 176	0
15-10.8	3 5 6 9 14 18 23 24 29 31	12 51 102 144 192	0
15-10.9	3 5 9 14 15 18 20 23 24 30	12 51 102 144 192	0
15-10.10	3 5 6 9 14 15 17 22 23 26	12 61 80 136 232	2

Table 3: continued

Design	Additional columns	W	C
16-11.1	7 11 13 14 19 21 22 25 26 28 31	0 140 0 448 0	0
16-11.2	3 5 9 14 15 17 22 23 26 27 28	7 105 84 280 315	1
16-11.3	3 5 6 9 14 15 17 22 26 27 28	12 83 124 230 376	0
16-11.4	3 5 6 9 14 15 17 22 23 26 29	12 84 124 224 376	0
16-11.5	3 5 6 9 14 15 17 22 23 26 27	13 83 118 230 391	2
16-11.6	3 5 9 14 18 20 23 24 27 29 31	15 65 156 232 315	0
16-11.7	3 5 6 9 10 14 17 22 27 28 29	15 70 141 231 358	0
16-11.8	3 5 6 9 10 14 17 22 23 26 29	15 71 140 226 363	0
16-11.9	3 5 6 9 10 14 15 17 22 26 29	15 73 140 216 363	0
16-11.10	3 5 6 9 10 14 17 22 26 29 31	16 65 148 236 336	0
17-12.1	3 5 9 14 15 17 22 23 26 27 28 29	8 140 112 448	0
17-12.2	3 5 6 9 14 15 17 22 23 26 27 28	14 112 168 364	0
17-12.3	3 5 6 9 10 14 17 22 23 26 27 28	18 95 192 354	0
17-12.4	3 5 6 9 10 14 15 17 22 27 28 29	18 95 193 354	0
17-12.5	3 5 6 9 10 14 15 17 22 23 26 29	18 96 192 348	0
18-13.1	3 5 6 9 14 15 17 22 23 26 27 28 29	16 148 224 560	0
18-13.2	3 5 6 9 10 14 15 17 22 23 26 27 28	21 126 259 532	0
18-13.3	3 5 6 7 9 10 11 17 18 19 28 29 30	22 126 252 532	0
18-13.4	3 5 6 9 14 15 18 21 23 24 27 28 31	24 108 288 552	0
18-13.5	3 5 6 9 10 14 17 22 23 24 27 28 29	24 113 272 547	0
19-14.1	3 5 6 9 10 14 15 17 22 23 26 27 28 29	24 164 344 784	0
19-14.2	3 5 6 7 9 10 11 17 18 19 28 29 30 31	25 164 336 784	0
19-14.3	3 5 6 9 10 14 15 17 18 22 23 26 27 28	28 147 364 791	0
19-14.4	3 5 6 9 10 13 14 15 17 22 23 26 27 28	28 148 364 784	0
19-14.5	3 5 6 9 10 13 14 17 22 23 24 26 29 31	30 136 378 816	0
20-15.1	3 5 6 9 10 14 15 17 18 22 23 26 – 29	32 188 480 1128	0
20-15.2	3 5 6 9 10 13 14 15 17 22 23 26 – 29	32 189 480 1120	0
20-15.3	3 5 6 7 9 – 12 17 18 19 28 – 31	33 188 472 1128	0
20-15.4	3 5 6 9 10 14 15 17 18 22 23 26 27 28 31	35 175 491 1155	0
20-15.5	3 5 6 9 10 13 14 15 17 18 22 23 26 27 28	35 176 490 1148	0

Table 3: continued

Design	Additional columns	W	C
21-16.1	3 5 6 9 10 14 15 17 18 22 23 26 – 29 31	40 220 641 1608	0
21-16.2	3 5 6 9 10 13 14 15 17 18 22 23 26 – 29	40 221 640 1600	0
21-16.3	3 5 6 7 9 – 12 17 – 20 28 – 31	41 220 632 1608	0
21-16.4	3 5 6 9 10 13 14 17 19 22 23 24 26 28 29 31	42 210 651 1638	0
21-16.5	3 5 6 9 10 13 14 15 17 18 21 – 25 26 29	42 213 644 1624	0
22-17.1	3 5 6 9 10 13 – 15 17 18 21 – 23 25 26 29 30	48 263 832 2224	0
22-17.2	3 5 6 9 10 13 – 15 17 18 21 – 23 25 – 28	49 259 833 2240	0
22-17.3	3 5 6 7 9 – 12 17 – 20 25 28 – 31	49 261 825 2240	0
22-17.4	3 5 6 7 9 – 12 17 – 20 24 28 29 30 31	50 260 816 2249	0
22-17.5	3 5 6 7 9 – 13 17 – 20 28 – 31	50 261 816 2240	0
23-18.1	3 5 6 9 10 13 14 15 17 18 21 22 23 25 – 29	56 315 1064 3024	0
23-18.2	3 5 6 7 9 – 13 17 – 20 26 28 – 31	58 311 1050 3056	0
23-18.3	3 5 6 7 9 – 13 17 18 19 20 21 26 27 28 30	59 308 1047 3073	0
23-18.4	3 5 6 7 9 – 13 17 – 20 22 28 – 31	59 310 1041 3065	0
23-18.5	3 5 6 7 9 – 13 17 – 21 26 – 29	59 311 1040 3056	0
24-19.1	3 5 6 9 10 13 – 15 17 18 21 – 23 25 – 30	64 378 1344 4032	0
24-19.2	3 5 6 7 9 – 13 17 – 21 26 – 30	67 371 1324 4088	0
24-19.3	3 5 6 7 9 – 13 17 18 20 21 22 24 26 27 30 31	68 369 1316 4106	0
24-19.4	3 5 6 7 9 – 14 17 – 20 27 – 31	68 370 1316 4096	0
24-19.5	3 5 6 7 9 – 13 17 – 20 22 24 27 – 30	69 366 1311 4129	0
25-20.1	3 5 6 7 9 – 13 17 – 21 26 – 31	76 442 1656 5376	0
25-20.2	3 5 6 7 9 – 13 17 – 20 22 24 27 – 31	78 437 1641 5422	0
25-20.3	3 5 6 7 9 – 14 17 – 21 26 – 30	78 438 1640 5412	0
25-20.4	3 5 6 7 9 – 14 17 – 22 25 – 28	79 436 1632 5430	0
25-20.5	3 5 6 7 9 – 14 17 – 22 25 26 28 31	79 437 1630 5422	0
26-21.1	3 5 6 7 9 – 14 17 – 21 26 – 31	88 518 2032 7032	0
26-21.2	3 5 6 7 9 – 14 17 – 22 25 – 29	89 516 2023 7052	0
26-21.3	3 5 6 7 9 – 14 17 – 22 24 – 26 28 31	90 515 2012 7063	0
26-21.4	3 5 6 7 9 – 15 17 – 22 24 – 26 28	90 515 2013 7062	0
26-21.5	3 5 6 7 9 – 15 17 – 26	90 516 2012 7052	0
27-22.1	3 5 6 7 9 – 14 17 – 22 25 – 30	100 606 2484 9064	0
27-22.2	3 5 6 7 9 – 15 17 – 26 28	101 605 2473 9075	0
27-22.3	3 5 6 7 9 – 15 17 – 27	101 606 2472 9064	0
28-23.1	3 5 6 7 9 – 14 17 – 22 25 – 31	112 707 3024 11536	0
28-23.2	3 5 6 7 9 – 15 17 – 28	113 706 3012 11548	0

Table 4: Selected 64-run designs for $n = 7$ to 32.
(Each design consists of columns 1, 2, 4, 8, 16, 32 and those specified in the "Additional Columns". C is the number of clear 2fi's. $W = (A_4, \ldots, A_7)$ when $n < 18$ and $W = (A_4, A_5, A_6)$ when $n \geq 18$.)

Design	Additional Columns	W	C
7-1.1	63	0 0 0 1	21
8-2.1	15 51	0 2 1 0	28
9-3.1	7 27 45	1 4 2 0	30
9-3.2	7 25 43	2 3 1 1	24
9-3.3	7 27 43	2 4 0 0	24
9-3.4	7 11 61	3 0 4 0	21
9-3.5	7 25 42	3 0 4 0	18
9-3.6	7 11 53	3 2 0 2	21
9-3.7	7 11 51	3 3 0 0	21
9-3.8	7 11 29	3 4 0 0	21
9-3.9	7 11 49	4 0 2 0	15
9-3.10	7 11 21	5 0 2 0	12
10-4.1	7 27 43 53	2 8 4 0	33
10-4.2	7 25 42 53	3 6 4 2	27
10-4.3	7 11 29 51	3 7 4 0	30
10-4.4	7 11 29 46	3 8 3 0	30
10-4.5	7 11 29 49	4 6 2 2	24
10-4.6	7 11 29 45	4 8 0 0	24
10-4.7	7 25 42 52	5 0 10 0	15
10-4.8	7 11 21 57	5 4 2 4	21
10-4.9	7 11 21 45	5 5 2 2	21
10-4.10	7 11 13 62	7 0 7 0	24
11-5.1	7 11 29 45 51	4 14 8 0	34
11-5.2	7 25 42 52 63	5 10 10 5	25
11-5.3	7 11 29 46 49	5 12 7 4	28
11-5.4	7 11 21 46 56	6 10 8 4	25
11-5.5	7 11 29 45 49	6 12 4 4	25
11-5.6	7 11 19 29 62	6 12 8 0	27
11-5.7	7 11 21 38 57	7 8 7 8	22
11-5.8	7 11 21 41 51	7 9 6 6	22
11-5.9	7 11 13 30 49	8 10 4 4	28
11-5.10	7 11 13 30 46	8 14 0 0	28

Table 4: Continued

Design	Additional Columns	W	C
12-6.1	7 11 29 45 51 62	6 24 16 0	36
12-6.2	7 11 21 46 54 56	8 20 14 8	27
12-6.3	7 11 21 41 51 63	9 18 13 12	24
12-6.4	7 11 21 41 54 56	10 15 16 11	21
12-6.5	7 11 13 30 46 49	10 20 8 8	30
12-6.6	7 11 19 37 57 63	10 16 12 16	20
12-6.7	7 11 19 29 37 59	10 16 16 8	20
12-6.8	7 11 19 29 37 57	10 18 10 12	20
12-6.9	7 11 21 25 38 58	11 14 15 12	21
12-6.10	7 11 13 19 46 49	12 14 12 12	23
13-7.1	7 11 21 25 38 58 60	14 28 24 24	20
13-7.2	7 11 13 30 46 49 63	14 33 16 16	36
13-7.3	7 11 19 29 37 59 62	15 24 32 16	12
13-7.4	7 11 19 29 37 41 60	15 27 21 27	16
13-7.5	7 11 13 19 46 49 63	15 28 20 24	22
13-7.6	7 11 19 30 37 41 52	16 22 30 22	17
13-7.7	7 11 13 19 37 57 63	16 24 22 32	18
13-7.8	7 11 19 37 41 60 63	16 26 18 30	12
13-7.9	7 11 19 29 37 41 47	18 20 28 24	20
13-7.10	7 11 13 19 35 49 63	18 21 24 24	21
14-8.1	7 11 19 30 37 41 49 60	22 40 36 56	8
14-8.2	7 11 19 29 30 37 41 47	22 40 41 48	16
14-8.3	7 11 13 19 21 25 35 60	29 26 46 50	19
14-8.4	7 11 13 14 19 21 25 54	38 17 52 44	25
14-8.5	7 11 13 14 19 21 22 57	39 16 48 48	25
14-8.6	7 11 19 29 30 37 41 49	22 41 36 52	8
14-8.7	7 11 19 30 37 41 52 56	23 32 56 40	13
14-8.8	7 11 13 19 21 41 54 63	23 38 38 54	16
14-8.9	7 11 13 19 21 46 54 56	23 40 36 48	16
14-8.10	7 11 19 29 37 41 47 49	24 31 54 42	16

Table 4: Continued

Design	Additional Columns	W	C
15-9.1	7 11 19 30 37 41 49 60 63	30 60 60 105	0
15-9.2	7 11 19 29 30 37 41 49 60	30 61 60 100	0
15-9.3	7 11 19 29 37 41 47 49 55	33 44 96 72	14
15-9.4	7 11 13 14 19 21 35 41 63	39 38 80 88	19
15-9.5	7 11 13 14 19 21 22 25 58	55 22 96 72	27
15-9.6	7 11 13 19 21 35 37 57 58	33 54 60 108	6
15-9.7	7 11 13 19 21 25 35 60 63	34 52 65 100	12
15-9.8	7 11 13 19 21 35 41 49 63	35 42 88 80	14
15-9.9	7 11 13 19 21 25 35 37 63	37 40 84 84	17
15-9.10	7 11 13 14 19 21 25 35 60	43 34 80 88	18
16-10.1	7 11 13 19 21 35 37 57 58 60	43 81 96 189	0
16-10.2	7 11 19 29 37 41 47 49 55 59	45 60 160 120	15
16-10.3	7 11 13 19 21 25 35 37 41 63	49 56 144 136	15
16-10.4	7 11 13 14 19 21 25 35 37 63	53 52 136 144	18
16-10.5	7 11 13 14 19 21 22 25 35 60	61 44 136 144	17
16-10.6	7 11 13 14 19 21 22 25 26 60	77 28 168 112	29
16-10.7	7 11 13 14 19 21 35 37 57 58	47 72 98 192	4
16-10.8	7 11 13 14 19 21 25 35 60 63	49 68 108 176	8
16-10.9	7 11 13 14 19 21 22 35 57 60	51 64 102 192	4
16-10.10	7 11 13 14 19 21 22 35 37 57	57 48 120 160	15
16-10.11	7 11 13 19 21 35 41 50 61 62	59 0 262 0	0
16-10.12	7 11 13 19 21 35 41 49 61 62	60 0 256 0	0
16-10.13	7 11 13 19 21 35 41 52 56 62	60 0 256 0	0
16-10.14	7 11 19 37 41 47 49 55 59 62	60 0 256 0	0
16-10.15	7 11 13 19 21 25 35 44 55 61	60 0 257 0	0
17-11.1	7 11 13 14 19 21 35 37 57 58 60	59 108 150 324	0
17-11.2	7 11 19 29 37 41 47 49 55 59 62	60 80 256 192	16
17-11.3	7 11 13 19 21 25 35 37 41 49 63	65 75 232 216	16
17-11.4	7 11 13 14 19 21 25 35 37 41 63	68 72 224 224	16
17-11.5	7 11 13 14 19 21 22 25 35 37 63	73 67 216 232	19
17-11.6	7 11 13 14 19 21 22 25 26 28 63	105 35 280 168	31
17-11.7	7 11 13 14 19 21 22 35 37 38 57	76 64 192 256	16
17-11.8	7 11 13 19 21 25 35 37 42 61 62	79 0 394 0	0
17-11.9	7 11 13 14 19 21 35 41 49 50 61	80 0 388 0	0
17-11.10	7 11 13 14 19 21 22 25 26 35 60	84 56 224 224	16

Table 4: Continued

Design	Additional Columns	W	C
18-12.1	7 11 13 14 19 21 22 35 37 57 58 60	78 144 228	0
18-12.2	7 11 13 14 19 21 22 35 37 38 57 58	84 128 240	0
18-12.3	7 11 13 14 19 21 22 25 26 35 60 63	92 112 280	0
18-12.4	7 11 13 19 21 25 35 37 42 49 61 62	102 0 588	0
18-12.5	7 11 13 14 19 21 25 35 44 49 52 62	103 0 582	0
19-13.1	7 11 13 14 19 21 22 35 37 38 57 58 60	100 192 336	0
19-13.2	7 11 13 14 19 21 22 35 41 44 49 55 56	131 0 847	0
19-13.3	7 11 13 14 19 21 25 35 37 42 49 50 61	131 0 847	0
19-13.4	7 11 13 14 19 21 22 35 41 42 49 52 56	132 0 840	0
19-13.5	7 11 13 14 19 21 25 35 37 41 49 50 61	132 0 840	0
20-14.1	7 11 13 14 19 21 22 35 37 38 57 58 60 63	125 256 480	0
20-14.2	7 11 13 14 19 21 22 35 41 42 49 52 56 62	164 0 1208	0
20-14.3	7 11 13 14 19 21 22 35 41 42 49 52 56 61	165 0 1200	0
20-14.4	7 11 13 14 19 21 22 35 41 42 49 50 61 62	165 0 1200	0
20-14.5	7 11 13 14 19 21 25 35 37 42 49 52 59 61	165 0 1200	0
21-15.1	7 11 13 14 19 21 22 25 35 41 42 49 52 56 62	204 0 1680	0
21-15.2	7 11 13 14 19 21 22 25 35 37 41 42 49 50 61	205 0 1672	0
21-15.3	7 11 13 14 19 21 22 25 35 37 41 42 49 52 56	205 0 1672	0
21-15.4	7 11 13 14 19 21 22 25 35 41 42 49 50 61 62	205 0 1672	0
21-15.5	7 11 13 14 19 21 22 25 26 37 41 44 49 52 59	206 0 1666	0
22-16.1	7 11 13 14 19 21 22 25 35 37 41 42 49 52 56 62	250 0 2304	0
22-16.2	7 11 13 14 19 21 22 25 26 35 37 41 44 49 52 59	251 0 2296	0
22-16.3	7 11 13 14 19 21 22 25 26 37 41 44 49 52 59 62	251 0 2296	0
22-16.4	7 11 13 14 19 21 22 25 26 35 37 38 41 44 49 56	252 0 2288	0
22-16.5	7 11 13 14 19 21 22 25 26 35 37 38 41 44 49 55	252 0 2289	0
23-17.1	7 11 13 14 19 21 22 25 26 35 37 41 44 49 52 56 62	304 0 3105	0
23-17.2	7 11 13 14 19 21 22 25 26 35 37 38 41 44 49 55 56	304 0 3105	0
23-17.3	7 11 13 14 19 21 22 25 26 35 37 38 41 42 49 52 56	305 0 3096	0
23-17.4	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 49 52	306 0 3089	0
23-17.5	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 49 50	307 0 3080	0

Table 4: Continued

Design	Additional Columns	W	C
24-18.1	7 11 13 14 19 21 22 25 26 35 37 38 41 42 49 52 56 62	365 0 4138	0
24-18.2	7 11 13 14 19 21 22 25 26 35 37 38 41 42 49 52 56 61	366 0 4128	0
24-18.3	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 49 52 56	366 0 4129	0
24-18.4	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 44 49 50	367 0 4120	0
24-18.5	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 49 52	369 0 4106	0
25-19.1	7 11 13-14 19 21 22 25 26 28 35 37 38 41 42 49 52 56 62	435 0 5440	0
25-19.2	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 44 49 50 52	436 0 5430	0
25-19.3	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 49 52 56	437 0 5422	0
25-19.4	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 49 50	438 0 5412	0
25-19.5	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49	442 0 5376	0
26-20.1	7 11 13 14 19 21 22 25 26 28 35 37 38 41 42 44 49 50 52 56	515 0 7062	0
26-20.2	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 49 52 56 62	515 0 7063	0
26-20.3	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 49 50 52	516 0 7052	0
26-20.4	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50	518 0 7032	0
27-21.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 49 50 52 56	605 0 9075	0
27-21.2	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52	606 0 9064	0
28-22.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 56	706 0 1158	0
28-22.2	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 55	707 0 11536	0
29-23.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 55 56	819 0 14560	0
30-24.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 55 56 59	945 0 18200	0
31-25.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 55 56 59 61	1085 0 22568	0
32-26.1	7 11 13 14 19 21 22 25 26 28 31 35 37 38 41 42 44 47 49 50 52 55 56 59 61 62	1240 0 27776	0

Table 5: Design matrix for 27-run designs.

1	**2**	3	4	**5**	6	7	8	9	10	11	12	13
1	0	1	1	0	1	0	1	1	1	0	1	1
0	1	1	2	0	0	1	1	2	0	1	1	2
0	0	0	0	1	1	1	1	1	2	2	2	2

Table 6: Complete catalogue of 27-run designs.
(Each design consists of columns 1, 2, 5 and those specified in the "Additional Columns". $W = (A_3, A_4, \ldots)$. Designs for n =11 and 12 are unique.)

Designs	Additional Columns	W	C
4-1.1	3	1 0	3
4-1.2	8	0 1	0
5-2.1	3 4	4 0 0	4
5-2.2	3 6	2 1 1	0
5-2.3	3 9	1 3 0	0
6-3.1	3 4 6	5 3 3 2	0
6-3.2	3 6 7	4 3 6 0	0
6-3.3	3 6 11	3 6 3 1	0
6-3.4	3 9 13	2 9 0 2	0
7-4.1	3 10 11 13	5 15 9 8 3	0
7-4.2	4 8 10 11	6 11 15 4 4	0
7-4.3	4 8 9 11	7 10 12 9 2	0
7-4.4	3 4 9 13	8 9 9 14 0	0
8-5.1	3 8 9 10 11	8 30 24 32 24 3	0
8-5.2	4 8 9 10 11	10 23 32 30 22 4	0
8-5.3	3 4 9 11 13	11 21 30 38 15 6	0
9-6.1	3 8 9 10 11 13	12 54 54 96 108 27 13	0
9-6.2	3 4 8 9 10 11	15 42 69 96 93 39 10	0
9-6.3	4 9 10 11 12 13	16 39 69 106 78 48 8	0
10-7.1	3 4 6 7 8 10 11	22 68 138 250 290 213 92 20	0
10-7.2	3 6 7 8 10 11 12	21 72 135 240 315 189 103 18	0