

Some New Frames

Research Report

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1 Introduction

In this research report, we present several “small” frames that are constructed by direct methods. These frames cannot be obtained by the recursive techniques at our disposal and hence must be done as special cases.

These special cases are as follows:

- 37 frames of type 2^ut^1 are obtained by constructing intransitive starter-adders and are presented in Section 2.
- 24 frames of type 2^ut^1 are obtained from the hill-climbing algorithm of [1, 2] and are listed in Section 3.
- Seven incomplete Room squares are obtained by hill-climbing and are presented in Section 4. These are the seven IRS listed in Lemma 4.1 of [3].

In view of Theorem 1.4 of [3], we need to construct frames of type 2^ut^1 for $6 \leq t \leq 18$, t even, $t + 1 \leq u < 5\lceil \frac{t}{4} \rceil + 20$. The constructions are summarized in the following tables. The Lemmas are those presented in [3].

t	u	authority
6	7	hill-climbing
6	8	Lemma 5.9
6	9	hill-climbing
6	10	IFSA
6	11	hill-climbing
6	12–23	IFSA
6	24	Lemma 5.4
6	25	Lemma 5.5
6	26–27	IFSA
6	28–29	Lemma 5.2

t	u	authority
8	9–11	hill-climbing
8	12	IFSA
8	13	hill-climbing
8	14	IFSA
8	15	hill-climbing
8	16–23	IFSA
8	24	Lemma 5.4
8	25	Lemma 5.5
8	26–29	IFSA

t	u	authority
10	11	hill-climbing
10	12	Lemma 5.3
10	13	hill-climbing
10	14	IFSA
10	15	hill-climbing
10	16	Lemma 5.3
10	17	hill-climbing
10	18	IFSA
10	19	hill-climbing
10	20	Lemma 5.3
10	21–22	Lemma 5.6
10	23	IFSA
10	24	Lemma 5.4
10	25–32	Lemma 5.1

t	u	authority
12	13–14	hill-climbing
12	15	Lemma 5.3
12	16	IFSA
12	17	hill-climbing
12	18	Lemma 5.3
12	19	hill-climbing
12	20	Lemma 5.3
12	21	hill-climbing
12	22	IFSA
12	23	hill-climbing
12	24	Lemma 5.4
12	25–32	Lemma 5.1

t	u	authority
14	15	Lemma 5.3
14	16	IFSA
14	17	hill-climbing
14	18	Lemma 5.3
14	19	hill-climbing
14	20	Lemma 5.3
14	21	hill-climbing
14	22	IFSA
14	23	hill-climbing
14	24	Lemma 5.4
14	25–32	Lemma 5.1

t	u	authority
16	17	Lemma 5.7
16	18	Lemma 5.3
16	19	hill-climbing
16	20	IFSA
16	21–23	Lemma 5.7
16	24	Lemma 5.4
16	25–32	Lemma 5.1

t	u	authority
18	19	unknown
18	20–23	Lemma 5.8
18	24	Lemma 5.3
18	25–32	Lemma 5.1

2 Intransitive Frame Starter-adders

Intransitive starter-adder for frame of type $2^{12}6^1$

starter	adder	starter
22	1	23
19	3	22
13	8	21
8	11	19
7	13	20
16	18	10
15,23	17	8,16
14,20	19	9,15
11,21	20	7,17
5,9	21	2,6
2,4	23	1,3
1,6		
17,18		
3,10		
	4,13	
	5,18	
	11,14	

Intransitive starter-adder for frame of type $2^{13}6^1$

starter	adder	starter
22	1	23
25	5	4
16	9	25
12	10	22
8	11	19
24	20	18
7,19	17	24,10
15,23	19	8,16
14,20	21	9,15
11,21	22	7,17
5,9	23	2,6
2,4	25	1,3
1,6		
3,10		
17,18		
	5,20	
	11,14	
	12,21	

Intransitive starter-adder for frame of type $2^{14}6^1$

starter	adder	starter
9	1	10

22	3	25
2	7	9
17	12	1
3	20	23
4	27	3
19,25	15	6,12
21,26	18	11,16
24,27	22	18,21
7,20	23	2,15
11,23	24	7,19
8,16	25	5,13
6,10	26	4,8
1,18		
5,15		
12,13		
		17,26
		20,27
		22,24

Intransitive starter-adder for frame of type $2^{15}6^1$

starter	adder	starter
22	1	23
26	2	28
14	12	26
23	13	6
20	19	9
25	21	16
27,28	22	19,20
19,29	23	12,22
3,17	24	27,11
12,18	25	7,13
9,21	26	5,17
5,13	27	2,10
6,10	28	4,8
2,4	29	1,3
1,8		
7,16		
11,24		
		14,25
		18,21
		24,29

Intransitive starter-adder for frame of type $2^{16}6^1$

starter	adder	starter
20	3	23
14	4	18
22	9	31

23	15	6
7	21	28
25	22	15
15,30	11	26,9
27,28	24	19,20
19,29	25	12,22
17,3	26	11,29
12,18	27	7,13
9,21	28	5,17
5,13	29	2,10
6,10	30	4,8
2,4	31	1,3
1,8		
11,24		
31,26		
		14,25
		21,30
		24,27

Intransitive starter-adder for frame of type $2^{17}6^1$

starter	adder	starter
20	2	22
29	3	32
25	15	6
14	16	30
23	22	11
26	24	16
22,32	1	23,33
15,30	13	28,9
27,28	26	19,20
19,33	27	12,26
3,21	28	31,15
12,18	29	7,13
9,31	30	5,27
5,13	31	2,10
6,10	32	4,8
2,4	33	1,3
1,8		
7,16		
11,24		
		14,25
		18,21
		24,29

Intransitive starter-adder for frame of type $2^{18}6^1$

starter	adder	starter
30	3	33

17	5	22
23	9	32
25	20	9
14	21	35
7	24	31
15,27	2	17,29
16,26	26	6,16
3,33	27	30,24
22,29	28	14,21
19,20	29	12,13
21,32	30	15,26
12,28	31	7,23
9,31	32	5,27
5,13	33	2,10
6,10	34	4,8
2,4	35	1,3
1,34		
8,35		
11,24		
		11,28
		19,34
		20,25

Intransitive starter-adder for frame of type $2^{19}6^1$

starter	adder	starter
35	1	36
28	4	32
26	5	31
15	10	25
24	11	35
34	15	11
36,37	24	22,23
7,25	27	34,14
16,30	28	6,20
1,33	29	30,24
17,29	30	9,21
20,23	31	13,16
21,32	32	15,26
12,22	33	7,17
9,31	34	5,27
5,13	35	2,10
6,10	36	4,8
2,4	37	1,3
3,8		
11,18		
14,27		
		12,29

18,33
28,37

Intransitive starter-adder for frame of type $2^{20}6^1$

starter	adder	starter
31	1	32
28	7	35
3	11	14
26	13	39
14	23	37
11	25	36
8,24	4	12,28
1,19	5	6,24
33,36	29	22,25
23,37	30	13,27
38,39	31	29,30
17,29	32	9,21
25,30	33	18,23
21,32	34	15,26
12,22	35	7,17
9,15	36	5,11
5,13	37	2,10
6,10	38	4,8
2,4	39	1,3
7,34		
16,35		
18,27		
		16,33
		19,34
		31,38

Intransitive starter-adder for frame of type $2^{21}6^1$

starter	adder	starter
38	3	41
19	5	24
35	13	6
7	27	34
11	29	40
3	33	36
8,24	4	12,28
14,26	6	20,32
20,1	18	38,19
16,34	23	39,15
33,36	31	22,25
23,37	32	13,27
17,39	34	9,31
25,30	35	18,23

32,41	36	26,35
12,22	37	7,17
9,15	38	5,11
5,13	39	2,10
6,10	40	4,8
2,4	41	1,3
18,31		
27,28		
29,40		
	16,33	
	30,37	
	29,14	

Intransitive starter-adder for frame of type $2^{22}6^1$

starter	adder	starter
32	1	33
35	3	38
27	8	35
29	12	41
3	14	17
1	28	29
14,26	2	16,28
18,19	6	24,25
8,21	29	37,6
11,38	32	43,26
7,31	33	40,20
23,37	34	13,27
24,43	35	15,34
17,40	36	9,32
25,30	37	18,23
20,36	38	14,30
12,41	39	7,36
9,15	40	5,11
5,13	41	2,10
6,10	42	4,8
2,4	43	1,3
16,34		
28,39		
33,42		
	12,19	
	21,31	
	39,42	

Intransitive starter-adder for frame of type $2^{23}6^1$

starter	adder	starter
38	3	41
30	5	35

28	10	38
16	11	27
11	20	31
35	33	22
14,26	2	16,28
19,37	6	25,43
18,44	15	33,13
40,45	27	21,26
8,21	31	39,6
7,31	35	42,20
1,22	36	37,12
24,43	37	15,34
17,27	38	9,19
25,39	39	18,32
20,36	40	14,30
12,41	41	7,36
9,15	42	5,11
5,13	43	2,10
6,10	44	4,8
2,4	45	1,3
3,34		
29,32		
33,42		
		17,24
		29,40
		44,45

Intransitive starter-adder for frame of type $2^{26}6^1$

starter	adder	starter
35	2	37
16	9	25
29	15	44
48	25	21
51	29	28
47	36	31
28,50	1	29,51
14,32	3	17,35
18,38	4	22,42
33,42	8	41,50
34,37	12	46,49
11,23	16	27,39
45,46	30	23,24
8,21	37	45,6
7,31	41	48,20
1,22	42	43,12
24,43	43	15,34
17,27	44	9,19

25,39	45	18,32
20,36	46	14,30
12,41	47	7,36
9,15	48	5,11
5,13	49	2,10
6,10	50	4,8
2,4	51	1,3
3,40		
19,30		
44,49		
		13,38
		16,33
		40,47

Intransitive starter-adder for frame of type $2^{27}6^1$

starter	adder	starter
35	11	46
37	16	53
47	26	19
34	41	21
53	42	41
52	46	44
28,50	1	29,51
14,32	3	17,35
18,38	4	22,42
33,42	7	40,49
3,29	10	13,39
11,23	15	26,38
16,26	17	33,43
48,51	31	25,28
45,46	32	23,24
8,21	39	47,6
7,31	43	50,20
1,22	44	45,12
24,43	45	15,34
25,39	47	18,32
20,36	48	14,30
12,41	49	7,36
9,15	50	5,11
5,13	51	2,10
6,10	52	4,8
2,4	53	1,3
17,40		
19,30		
44,49		
		9,16
		31,48
		37,52

Intransitive starter-adder for frame of type $2^{12}8^1$

starter	adder	starter
22	1	23
19	3	22
21	6	3
13	8	21
8	11	19
7	13	20
11	14	1
16	18	10
15,23	17	8,16
14,20	19	9,15
5,9	21	2,6
1,6		
2,4		
3,10		
17,18		
		4,13
		5,18
		7,17
		11,14

Intransitive starter-adder for frame of type $2^{14}8^1$

starter	adder	starter
9	1	10
22	3	25
24	6	2
2	7	9
17	12	1
27	16	15
3	20	23
4	27	3
19,25	15	6,12
21,26	18	11,16
11,23	24	7,19
8,16	25	5,13
6,10	26	4,8
1,18		
5,15		
7,20		
12,13		
		17,26
		18,21
		20,27
		22,24

Intransitive starter-adder for frame of type $2^{16}8^1$

starter	addor	starter
20	3	23
14	4	18
29	6	3
22	9	31
19	14	1
23	15	6
7	21	28
25	22	15
15,30	11	26,9
27,28	24	19,20
17,3	26	11,29
12,18	27	7,13
9,21	28	5,17
5,13	29	2,10
6,10	30	4,8
1,8		
2,4		
11,24		
31,26		
		12,22
		14,25
		21,30
		24,27

Intransitive starter-adder for frame of type $2^{17}8^1$

starter	addor	starter
20	2	22
29	3	32
15	5	20
25	15	6
14	16	30
23	22	11
30	23	19
26	24	16
22,32	1	23,33
19,33	27	12,26
3,21	28	31,15
12,18	29	7,13
9,31	30	5,27
5,13	31	2,10
6,10	32	4,8
2,4	33	1,3
1,8		
7,16		
11,24		
27,28		

9,28
14,25
18,21
24,29

Intransitive starter-adder for frame of type $2^{18}8^1$

starter	adder	starter
30	3	33
22	4	26
17	5	22
23	9	32
25	20	9
14	21	35
29	22	15
7	24	31
15,27	2	17,29
16,26	26	6,16
3,33	27	30,24
19,20	29	12,13
12,28	31	7,23
9,31	32	5,27
5,13	33	2,10
6,10	34	4,8
2,4	35	1,3
1,34		
8,35		
11,24		
21,32		

11,28
14,21
19,34
20,25

Intransitive starter-adder for frame of type $2^{19}8^1$

starter	adder	starter
35	1	36
28	4	32
26	5	31
15	10	25
24	11	35
37	14	13
34	15	11
36	18	16
7,25	27	34,14
16,30	28	6,20
1,33	29	30,24
17,29	30	9,21

21,32	32	15,26
12,22	33	7,17
9,31	34	5,27
5,13	35	2,10
6,10	36	4,8
2,4	37	1,3
3,8		
11,18		
14,27		
20,23		
		12,29
		18,33
		22,23
		28,37

Intransitive starter-adder for frame of type $2^{20}8^1$

starter	adder	starter
31	1	32
28	7	35
3	11	14
26	13	39
14	23	37
38	24	22
11	25	36
39	26	25
8,24	4	12,28
1,19	5	6,24
23,37	30	13,27
17,29	32	9,21
25,30	33	18,23
21,32	34	15,26
12,22	35	7,17
9,15	36	5,11
5,13	37	2,10
6,10	38	4,8
2,4	39	1,3
7,34		
16,35		
18,27		
33,36		
		16,33
		19,34
		29,30
		31,38

Intransitive starter-adder for frame of type $2^{21}8^1$

starter	adder	starter
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36	2	38
38	3	41
19	5	24
35	13	6
7	27	34
33	28	19
11	29	40
3	33	36
8,24	4	12,28
14,26	6	20,32
16,34	23	39,15
23,37	32	13,27
17,39	34	9,31
25,30	35	18,23
32,41	36	26,35
12,22	37	7,17
9,15	38	5,11
5,13	39	2,10
6,10	40	4,8
2,4	41	1,3
1,20		
18,31		
27,28		
29,40		
		14,29
		16,33
		22,25
		30,37

Intransitive starter-adder for frame of type $2^{22}8^1$

starter	adder	starter
32	1	33
35	3	38
21	4	25
27	8	35
29	12	41
3	14	17
8	16	24
1	28	29
14,26	2	16,28
11,38	32	43,26
7,31	33	40,20
23,37	34	13,27
24,43	35	15,34
17,40	36	9,32
25,30	37	18,23
20,36	38	14,30

12,41	39	7,36
9,15	40	5,11
5,13	41	2,10
6,10	42	4,8
2,4	43	1,3
16,34		
18,19		
28,39		
33,42		
	6,37	
	12,19	
	21,31	
	39,42	

Intransitive starter-adder for frame of type $2^{23}8^1$

starter	adder	starter
38	3	41
8	4	12
30	5	35
28	10	38
16	11	27
21	16	37
11	20	31
35	33	22
14,26	2	16,28
19,37	6	25,43
18,44	15	33,13
40,45	27	21,26
7,31	35	42,20
24,43	37	15,34
17,27	38	9,19
25,39	39	18,32
20,36	40	14,30
12,41	41	7,36
9,15	42	5,11
5,13	43	2,10
6,10	44	4,8
2,4	45	1,3
1,22		
3,34		
29,32		
33,42		
	6,39	
	17,24	
	29,40	
	44,45	

Intransitive starter-adder for frame of type $2^{26}8^1$

starter	adders	starter
35	2	37
16	9	25
29	15	44
45	22	15
48	25	21
51	29	28
47	36	31
46	40	34
28,50	1	29,51
14,32	3	17,35
18,38	4	22,42
33,42	8	41,50
34,37	12	46,49
11,23	16	27,39
45,46	30	23,24
8,21	37	45,6
7,31	41	48,20
1,22	42	43,12
24,43	43	15,34
17,27	44	9,19
25,39	45	18,32
20,36	46	14,30
12,41	47	7,36
9,15	48	5,11
5,13	49	2,10
6,10	50	4,8
2,4	51	1,3
3,40		
19,30		
24,43		
44,49		
		13,38
		16,33
		23,24
		40,47

Intransitive starter-adder for frame of type $2^{27}8^1$

starter	adders	starter
35	11	46
37	16	53
47	26	19
45	34	25
46	36	28
34	41	21
53	42	41
52	46	44

28,50	1	29,51
14,32	3	17,35
18,38	4	22,42
33,42	7	40,49
3,29	10	13,39
11,23	15	26,38
16,26	17	33,43
8,21	39	47,6
7,31	43	50,20
1,22	44	45,12
24,43	45	15,34
25,39	47	18,32
20,36	48	14,30
12,41	49	7,36
9,15	50	5,11
5,13	51	2,10
6,10	52	4,8
2,4	53	1,3
17,40		
19,30		
44,49		
48,51		
		9,16
		23,24
		31,48
		37,52

Intransitive starter-adder for frame of type $2^{28}8^1$

starter	adder	starter
45	5	50
47	7	54
34	11	45
37	16	53
53	24	21
55	26	25
46	33	23
54	39	37
14,32	3	17,35
18,38	4	22,42
3,29	10	13,39
33,42	13	46,55
11,23	15	26,38
16,26	17	33,43
48,51	32	24,27
8,21	41	49,6
7,31	45	52,20
1,22	46	47,12

24,43	47	15,34
27,52	48	19,44
25,39	49	18,32
20,36	50	14,30
12,41	51	7,36
9,15	52	5,11
5,13	53	2,10
6,10	54	4,8
2,4	55	1,3
17,40		
19,30		
35,50		
44,49		
		9,16
		29,51
		31,48
		40,41

Intransitive starter-adder for frame of type $2^{29}8^1$

starter	adder	starter
46	1	47
45	11	56
43	28	13
50	31	23
12	33	45
53	41	36
47	50	39
30	53	25
14,32	3	17,35
18,38	4	22,42
44,49	8	52,57
19,41	9	28,50
27,55	10	37,7
33,42	13	46,55
11,23	15	26,38
16,26	17	33,43
28,54	25	53,21
48,51	34	24,27
56,57	42	40,41
8,21	43	51,6
7,31	47	54,20
1,22	48	49,12
25,39	51	18,32
20,36	52	14,30
9,15	54	5,11
5,13	55	2,10
6,10	56	4,8

2,4	57	1,3
3,34		
17,40		
24,35		
37,52		
		9,16
		15,34
		19,44
		31,48

Intransitive starter-adder for frame of type $2^{14}10^1$

starter	adder	starter
9	1	10
22	3	25
7	5	12
2	7	9
24	10	6
17	12	1
27	17	16
20	19	11
3	20	23
4	27	3
11,23	24	7,19
8,16	25	5,13
6,10	26	4,8
1,18		
5,15		
12,13		
19,25		
21,26		
		2,15
		17,26
		18,21
		20,27
		22,24

Intransitive starter-adder for frame of type $2^{18}10^1$

starter	adder	starter
23	1	24
30	3	33
17	5	22
22	10	32
19	11	30
25	20	9
14	21	35
20	22	6
29	23	16

7	24	31
15,27	24	17,29
21,32	30	15,26
12,28	31	7,23
9,31	32	5,27
5,13	33	2,10
6,10	34	4,8
2,4	35	1,3
1,34		
3,33		
8,35		
11,24		
16,26		
		11,28
		12,13
		14,21
		19,34
		20,25

Intransitive starter-adder for frame of type $2^{23}10^1$

starter	adder	starter
38	3	41
30	5	35
28	10	38
16	11	27
22	17	39
11	20	31
43	24	21
1	25	26
24	28	6
35	33	22
14,26	2	16,28
19,37	6	25,43
18,44	15	33,13
7,31	35	42,20
17,27	38	9,19
25,39	39	18,32
20,36	40	14,30
12,41	41	7,36
9,15	42	5,11
5,13	43	2,10
6,10	44	4,8
2,4	45	1,3
3,34		
8,21		
29,32		
33,42		

40,45

12,37
15,34
17,24
29,40
44,45

Intransitive starter-adder for frame of type $2^{16}12^1$

starter	adder	starter
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17	1	18
18	2	20
20	3	23
14	5	19
3	6	9
22	9	31
9	13	22
12	14	26
23	15	6
7	21	28
25	22	15
21	23	12
5,13	29	2,10
6,10	30	4,8
2,4	31	1,3
1,8		
11,24		
15,30		
19,29		
26,31		
27,28		

5,17
7,13
11,29
14,25
21,30
24,27

Intransitive starter-adder for frame of type $2^{22}12^1$

starter	adder	starter
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32	1	33
35	3	38
27	8	35
17	9	26
40	10	6
29	12	41
24	13	37
3	14	17

23	20	43
43	26	25
1	28	29
37	31	24
14,26	2	16,28
7,31	33	40,20
25,30	37	18,23
20,36	38	14,30
12,41	39	7,36
9,15	40	5,11
5,13	41	2,10
6,10	42	4,8
2,4	43	1,3
8,21		
11,38		
16,34		
18,19		
28,39		
33,42		
		9,32
		12,19
		13,27
		15,34
		21,31
		39,42

Intransitive starter-adder for frame of type $2^{16}14^1$

starter	adder	starter
29	11	8
28	17	13
21	18	7
18	19	5
30	20	18
22	22	12
19	23	10
5	24	29
10	25	3
17	26	11
20	27	15
3	28	31
7	29	4
4	30	2
2,15	31	1,14
1,11		
6,31		
8,23		
9,12		

13,24
14,26
25,27

6,30
9,27
17,26
19,25
20,24
21,22
23,28

Intransitive starter-adder for frame of type $2^{22}14^1$

starter	adder	starter
32	1	33
35	3	38
27	8	35
17	9	26
40	10	6
25	11	36
29	12	41
24	13	37
3	14	17
23	20	43
30	21	7
43	26	25
1	28	29
37	31	24
14,26	2	16,28
7,31	33	40,20
20,36	38	14,30
9,15	40	5,11
5,13	41	2,10
6,10	42	4,8
2,4	43	1,3
8,21		
11,38		
12,41		
16,34		
18,19		
28,39		
33,42		

9,32
12,19
13,27
15,34
18,23
21,31
39,42

Intransitive starter-adder for frame of type $2^{20}16^1$

starter adder starter

28	7	35
26	13	39
32	19	11
4	22	26
14	23	37
11	25	36
19	26	5
15	28	3
36	29	25
31	30	21
39	31	30
25	32	17
30	33	23
21	34	15
12	35	7
2	39	1
8,24	4	12,28
5,13	37	2,10
6,10	38	4,8
1,38		
3,17		
7,37		
9,18		
16,35		
22,27		
23,29		
33,34		
		6,18
		9,22
		13,24
		14,32
		16,33
		19,34
		27,29
		31,38

3 Frames of Type $2^u t^1$ Constructed by Hill-climbing

Frame of type $2^7 6^1$

{ 3,15} { 4,11} { 5, 9} { 6,20} { 7,13} { 8,19} {10,16} {12,17} {14,18}
{ 3,18} { 4, 5} { 6,17} { 7,20} { 8,16} { 9,14} {10,15} {11,13} {12,19}
{ 1,10} { 2,14} { 5,19} { 6,16} { 7,17} { 8,18} { 9,20} {11,15} {12,13}
{ 1,15} { 2,10} { 5,20} { 6,11} { 7,16} { 8,17} { 9,19} {12,14} {13,18}
{ 1,20} { 2,19} { 3,11} { 4, 9} { 7,15} { 8,12} {10,18} {13,16} {14,17}
{ 1,18} { 2, 4} { 3,17} { 7,14} { 8,20} { 9,16} {10,12} {11,19} {13,15}
{ 1,11} { 2,18} { 3,14} { 4,17} { 5,15} { 6, 9} {10,19} {12,16} {13,20}
{ 1, 3} { 2,13} { 4,15} { 5,16} { 6,10} { 9,17} {11,18} {12,20} {14,19}
{ 1, 5} { 2,15} { 3, 8} { 4,19} { 6,12} { 7,18} {11,20} {13,17} {14,16}
{ 1, 6} { 2,20} { 3,16} { 4,18} { 5,17} { 7,12} { 8,11} {13,19} {14,15}
{ 1,19} { 2,16} { 3, 6} { 4, 7} { 5,18} { 8,15} { 9,13} {10,17} {14,20}
{ 1,16} { 2,17} { 3,20} { 4, 8} { 5,13} { 6,18} { 7,19} { 9,15} {10,14}
{ 1,17} { 2, 5} { 3, 7} { 4,20} { 6,19} { 8,10} { 9,18} {11,16} {12,15}
{ 1, 7} { 2, 9} { 3,19} { 4,16} { 5, 8} { 6,15} {10,20} {11,17} {12,18}
{ 1,13} { 2,11} { 3,10} { 4, 6} { 5, 7} { 8,14} { 9,12}
{ 1, 4} { 2,12} { 3, 5} { 6,14} { 7,11} { 8, 9} {10,13}
{ 1, 9} { 2, 7} { 3,12} { 4,13} { 5,10} { 6, 8} {11,14}
{ 1,12} { 2, 6} { 3, 9} { 4,14} { 5,11} { 7,10} { 8,13}
{ 1, 8} { 2, 3} { 4,12} { 5,14} { 6,13} { 7, 9} {10,11}
{ 1,14} { 2, 8} { 3,13} { 4,10} { 5,12} { 6, 7} { 9,11}

{ 3,19} { 4,20} { 5,10} { 6, 7} { 8,14} { 9,17} {11,15} {12,16} {13,18}

{ 3,10} { 4,13} { 5,15} { 6,16} { 7,19} { 8,20} { 9,11} {12,18} {14,17}
 { 1,16} { 2,19} { 5,17} { 6,13} { 7,18} { 8, 9} {10,20} {11,14} {12,15}
 { 1, 9} { 2,17} { 5,18} { 6,19} { 7,11} { 8,13} {10,15} {12,20} {14,16}
 { 1,19} { 2,15} { 3,12} { 4,10} { 7, 9} { 8,16} {11,17} {13,20} {14,18}
 { 1,14} { 2, 3} { 4,18} { 7,20} { 8,15} { 9,19} {10,13} {11,16} {12,17}
 { 1,18} { 2,16} { 3, 5} { 4, 6} { 9,20} {10,11} {12,19} {13,17} {14,15}
 { 1,15} { 2,20} { 3,13} { 4,16} { 5,14} { 6,18} { 9,12} {10,17} {11,19}
 { 1,12} { 2,11} { 3,18} { 4,17} { 5,19} { 6, 8} { 7,16} {13,15} {14,20}
 { 1,17} { 2, 7} { 3,20} { 4,12} { 5,11} { 6,15} { 8,18} {13,16} {14,19}
 { 1,13} { 2, 8} { 3,17} { 4,14} { 5,16} { 6,20} { 7,15} { 9,18} {10,19}
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 { 1, 4} { 2, 6} { 3,16} { 5,12} { 7,17} { 8,19} { 9,15} {10,18} {11,20}
 { 1, 8} { 2,12} { 3,15} { 4,19} { 5,20} { 6,17} { 7,10} { 9,16} {11,18}
 { 1,10} { 2,13} { 3,11} { 4, 8} { 5, 9} { 6,12} { 7,14}
 { 1, 3} { 2, 5} { 4, 7} { 6, 9} { 8,11} {10,14} {12,13}
 { 1, 5} { 2, 4} { 3,14} { 6,11} { 7,12} { 8,10} { 9,13}
 { 1,11} { 2, 9} { 3, 8} { 4, 5} { 6,10} { 7,13} {12,14}
 { 1, 7} { 2,10} { 3, 6} { 4,11} { 5,13} { 8,12} { 9,14}
 { 1, 6} { 2,14} { 3, 7} { 4, 9} { 5, 8} {10,12} {11,13}

Frame of type $2^9 6^1$

{ 3, 7} { 4,11} { 5,23} { 6,14} { 8,17} { 9,20} {10,21} {12,19} {13,16}
 {15,24} {18,22}
 { 3,18} { 4,24} { 5,16} { 6,10} { 7,22} { 8,20} { 9,12} {11,19} {13,17}
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 { 1,10} { 2,22} { 5, 7} { 6,23} { 8,18} { 9,14} {11,24} {12,17} {13,19}

{15,20} {16,21}
 { 1,23} { 2,19} { 5,20} { 6, 9} { 7,24} { 8,14} {10,15} {11,18} {12,13}
 {16,22} {17,21}
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 {14,17} {16,24}
 { 1,14} { 2, 3} { 4,21} { 7,13} { 8,24} { 9,15} {10,19} {11,23} {12,18}
 {16,20} {17,22}
 { 1,24} { 2,15} { 3, 6} { 4,18} { 5,13} { 9,16} {10,20} {11,21} {12,23}
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 {15,19} {18,21}
 { 1,19} { 2,24} { 3,13} { 4,22} { 5,21} { 6,15} { 7,12} { 8,11} {14,18}
 {16,23} {17,20}
 { 1,11} { 2,23} { 3,22} { 4,13} { 5,14} { 6,20} { 7,18} { 8,19} {12,16}
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 { 1, 5} { 2,20} { 3,23} { 4, 9} { 6,22} { 7,21} { 8,15} {10,17} {13,24}
 {14,19} {16,18}
 { 1,21} { 2, 4} { 3,15} { 5,18} { 6, 8} { 7,23} { 9,17} {10,22} {13,20}
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{ 1, 9} { 2,19} { 3,23} { 4,16} { 5,24} { 6,20} { 7,12} { 8,18} {10,22}
{11,21} {15,17}

{ 1,19} { 2, 6} { 3,16} { 4,18} { 5,17} { 7,20} { 8,24} { 9,11} {10,21}
{12,22} {15,23}

{ 1, 5} { 2,12} { 3,24} { 4,22} { 6,23} { 7,14} { 8,10} { 9,21} {11,20}
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{ 1,14} { 2,20} { 3,19} { 4,17} { 5,18} { 6,11} { 7,24} { 8,21} { 9,22}
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{ 1,13} { 2, 8} { 3,15} { 4,11} { 5, 9} { 6,17} { 7,10} {12,14} {16,18}

{ 1, 7} { 2,11} { 3,13} { 4, 9} { 5,14} { 6, 8} {10,15} {12,18} {16,17}

Frame of type $2^{11}6^1$

{ 3,26} { 4,28} { 5,13} { 6, 7} { 8,11} { 9,23} {10,22} {12,24} {14,25}
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{ 1,25} { 2,26} { 5,28} { 6,17} { 7,27} { 8,12} { 9,15} {10,19} {11,13}
{14,21} {16,20} {18,24} {22,23}

{ 1,26} { 2,28} { 5,27} { 6,15} { 7,23} { 8, 9} {10,12} {11,21} {13,24}
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{ 1,19} { 2, 7} { 3,28} { 4,15} { 8,27} { 9,22} {10,14} {11,25} {12,18}
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{ 1,22} { 2, 4} { 3,21} { 7,16} { 8,25} { 9,19} {10,27} {11,17} {12,26}
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{ 1, 4} { 2,27} { 3, 6} { 5,14} { 7,11} { 8,23} {12,22} {13,19} {15,18}
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{16,17} {20,21}

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Frame of type $2^9 8^1$

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Frame of type $2^{10}8^1$

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Frame of type $2^{13}8^1$

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Frame of type $2^{11}10^1$

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Frame of type $2^{13}10^1$

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4 Incomplete Room Squares Constructed by Hill-climbing

Frame of type $1^{38}17^1$

Found June 1, 1992

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Found March 3, 1992

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Found March 3, 1992

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Frame of type $1^{58}25^1$

Found June 8, 1992

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 {17,27} {18,58} {19,56} {20,48} {21,74} {22,83} {23,40} {24,29}
 {25,67} {26,68} {31,72} {33,75} {34,45} {35,42} {37,66} {38,54}
 {41,59} {43,55} {44,73} {47,79} {49,57} {61,63} {70,80} {71,78}
 {76,81}

{ 1,50} { 2,51} { 3,63} { 4,66} { 5,72} { 6,49} { 7,26} { 8,53}
 { 9,28} {10,29} {11,46} {12,69} {13,44} {14,38} {15,58} {16,65}
 {17,55} {18,33} {19,31} {20,40} {21,54} {22,75} {23,82} {24,59}
 {25,70} {27,37} {30,79} {32,45} {34,67} {35,78} {36,57} {39,61}
 {41,48} {42,68} {43,76} {47,52} {56,71} {60,80} {62,81} {64,77}
 {73,74}

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