

Appendix

Table A (S, C, R) and A for (1, 2; 3)-frames of type $3^u(3\ell)^1$

C		R		A (1, 2; 3)-frame of type $3^{15}3^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
5, 9, 13		14, 24, 37				
21, 31, 42	1	22, 32, 43	20, 32, 40	6	26, 38, 1	
1, 2, 3	4	5, 6, 7	4, 6, 11	23	27, 29, 34	
7, 10, 16	37	44, 2, 8	8, 19, 35	20	28, 39, 10	
12, 28, 37	28	40, 11, 20	14, 33, 38	43	12, 31, 36	
17, 29, 43	25	42, 9, 23	18, 24, 41	17	35, 41, 13	
22, 25, 39	39	16, 19, 33	23, 36, ∞_0	26	4, 17, ∞_0	
26, 44, ∞_1	22	3, 21, ∞_1	27, 34, ∞_2	36	18, 25, ∞_2	
C		R		A (1, 2; 3)-frame of type $3^{17}3^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
3, 5, 10		6, 11, 22				
1, 43, 44	49	50, 41, 42	24, 39, 48	21	45, 9, 18	
4, 6, 7	48	1, 3, 4	13, 27, 31	1	14, 28, 32	
12, 23, 26	12	24, 35, 38	21, 25, 46	42	12, 16, 37	
16, 29, 45	4	20, 33, 49	20, 30, 40	6	26, 36, 46	
18, 38, 50	40	7, 27, 39	22, 37, 49	7	29, 44, 5	
2, 28, 35	46	48, 23, 30	8, 14, 36	11	19, 25, 47	
9, 15, 47	44	2, 8, 40	11, 32, ∞_0	50	10, 31, ∞_0	
19, 42, ∞_1	24	43, 15, ∞_1	33, 41, ∞_2	31	13, 21, ∞_2	
C		R		A (1, 2; 3)-frame of type $3^{19}3^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
7, 12, 20		14, 24, 37				
28, 40, 55	1	29, 41, 56	26, 42, 51	2	28, 44, 53	
23, 34, 52	8	31, 42, 3	21, 36, 56	9	30, 45, 8	
18, 25, 49	15	33, 40, 7	1, 2, 3	45	46, 47, 48	
4, 6, 9	12	16, 18, 21	5, 8, 14	53	1, 4, 10	
10, 16, 24	56	9, 15, 23	11, 27, 48	43	54, 13, 34	
13, 39, 46	23	36, 5, 12	15, 32, 43	20	35, 52, 6	
17, 35, 47	42	2, 20, 32	22, 44, 54	52	17, 39, 49	
29, 33, 50	50	22, 26, 43	30, 53, ∞_0	54	27, 50, ∞_0	
31, 45, ∞_1	37	11, 25, ∞_1	37, 41, ∞_2	14	51, 55, ∞_2	
C		R		A (1, 2; 3)-frame of type $3^{21}3^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
3, 5, 10		6, 11, 22				
1, 2, 58	3	4, 5, 61	12, 18, 22	1	13, 19, 23	
11, 35, 60	4	15, 39, 1	15, 24, 50	2	17, 26, 52	
14, 40, 48	6	20, 46, 54	27, 37, 49	7	34, 44, 56	
25, 36, 59	11	36, 47, 7	20, 32, 52	40	60, 9, 29	
19, 38, 55	43	62, 18, 35	30, 44, 62	60	27, 41, 59	
23, 39, 56	9	32, 48, 2	28, 46, 61	45	10, 28, 43	
26, 41, 54	25	51, 3, 16	4, 7, 29	26	30, 33, 55	
6, 9, 33	44	50, 53, 14	8, 16, 17	41	49, 57, 58	
13, 53, 57	18	31, 8, 12	31, 51, ∞_0	57	25, 45, ∞_0	
34, 47, ∞_1	53	24, 37, ∞_1	43, 45, ∞_2	58	38, 40, ∞_2	
C		R		A (1, 2; 3)-frame of type $3^{23}3^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
17, 31, 48		19, 33, 53				
12, 39, 43	1	13, 40, 44	11, 16, 18	4	15, 20, 22	
10, 25, 34	2	12, 27, 36	9, 50, 57	5	14, 55, 62	
6, 60, 65	3	9, 63, 68	30, 38, 54	7	37, 45, 61	
26, 55, 66	21	47, 7, 18	21, 40, 51	14	35, 54, 65	
15, 37, 59	35	50, 3, 25	14, 20, 47	38	52, 58, 16	
33, 49, 67	68	32, 48, 66	29, 41, 62	66	26, 38, 59	
27, 52, 53	22	49, 5, 6	1, 3, 4	27	28, 30, 31	
2, 58, 61	9	11, 67, 1	5, 22, 35	51	56, 4, 17	
7, 56, 64	34	41, 21, 29	8, 36, 68	43	51, 10, 42	
13, 19, 45	58	2, 8, 34	24, 42, ∞_0	15	39, 57, ∞_0	
28, 32, ∞_1	32	60, 64, ∞_1	44, 63, ∞_2	49	24, 43, ∞_2	
C		R		A (1, 2; 3)-frame of type $3^{21}15^1$		
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
4, 6, 11		7, 12, 20				
8, 15, 25		10, 23, 33				
14, 28, 39		18, 37, 53				
17, 34, 54		16, 27, 41				
19, 38, 60		5, 9, 13				
9, 18, 24	6	15, 24, 30	12, 30, 59	2	14, 32, 61	
7, 10, 16	1	8, 11, 17	5, 20, 32	14	19, 34, 46	
1, 2, 29	37	38, 39, 3	3, 35, ∞_0	19	22, 54, ∞_0	
13, 43, ∞_1	15	28, 58, ∞_1	22, 52, ∞_2	40	62, 29, ∞_2	
23, 55, ∞_3	34	57, 26, ∞_3	26, 49, ∞_4	10	36, 59, ∞_4	
27, 51, ∞_5	16	43, 4, ∞_5	31, 57, ∞_6	57	25, 51, ∞_6	
33, 62, ∞_7	36	6, 35, ∞_7	36, 56, ∞_8	9	45, 2, ∞_8	
37, 61, ∞_9	3	40, 1, ∞_9	40, 58, ∞_{10}	54	31, 49, ∞_{10}	
41, 53, ∞_{11}	7	48, 60, ∞_{11}	44, 45, ∞_{12}	11	55, 56, ∞_{12}	
46, 48, ∞_{13}	4	50, 52, ∞_{13}	47, 50, ∞_{14}	60	44, 47, ∞_{14}	

Table A (Cont.) (S,C,R) and A for (1,2;3)-frames of type $3^u(3\ell)^1$

C		R		A (1,2;3)-frame of type $3^{23}15^1$	
19, 33, 53		18, 37, 56			
16, 29, 45		17, 31, 48			
10, 21, 32		14, 24, 40			
7, 12, 20		8, 15, 25			
4, 6, 11		5, 9, 13			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
24, 44, 68	3	27, 47, 2	5, 8, 14	2	7, 10, 16
9, 15, 18	11	20, 26, 29	1, 2, 26	10	11, 12, 36
17, 35, 50	15	32, 50, 65	22, 40, 55	13	35, 53, 68
13, 34, 56	8	21, 42, 64	3, 43, ∞_0	59	62, 33, ∞_0
25, 57, ∞_1	16	41, 4, ∞_1	27, 59, ∞_2	40	67, 30, ∞_2
28, 58, ∞_3	17	45, 6, ∞_3	30, 65, ∞_4	61	22, 57, ∞_4
31, 61, ∞_5	57	19, 49, ∞_5	36, 63, ∞_6	34	1, 28, ∞_6
37, 64, ∞_7	66	34, 61, ∞_7	38, 66, ∞_8	6	44, 3, ∞_8
39, 67, ∞_9	68	38, 66, ∞_9	41, 62, ∞_{10}	67	39, 60, ∞_{10}
42, 54, ∞_{11}	9	51, 63, ∞_{11}	47, 49, ∞_{12}	5	52, 54, ∞_{12}
48, 60, ∞_{13}	64	43, 55, ∞_{13}	51, 52, ∞_{14}	7	58, 59, ∞_{14}
C		R		A (1,2;3)-frame of type $3^{25}15^1$	
22, 45, 68		17, 33, 49			
18, 35, 52		14, 24, 34			
16, 30, 44		19, 38, 57			
10, 21, 32		8, 15, 28			
7, 12, 20		4, 6, 11			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
13, 39, 60	3	16, 42, 63	11, 38, 71	1	12, 39, 72
6, 15, 24	7	13, 22, 31	28, 40, 64	4	32, 44, 68
27, 59, 62	2	29, 61, 64	23, 29, 63	14	37, 43, 2
1, 2, 3	44	45, 46, 47	4, 8, 26	22	26, 30, 48
5, 9, 53	18	23, 27, 71	14, 56, ∞_0	37	51, 18, ∞_0
17, 47, ∞_1	23	40, 70, ∞_1	19, 49, ∞_2	61	5, 35, ∞_2
33, 72, ∞_3	63	21, 60, ∞_3	34, 42, ∞_4	20	54, 62, ∞_4
37, 66, ∞_5	29	66, 20, ∞_5	41, 65, ∞_6	17	58, 7, ∞_6
43, 74, ∞_7	42	10, 41, ∞_7	48, 51, ∞_8	8	56, 59, ∞_8
54, 69, ∞_9	15	69, 9, ∞_9	55, 61, ∞_{10}	12	67, 73, ∞_{10}
58, 70, ∞_{11}	70	53, 65, ∞_{11}	46, 67, ∞_{12}	9	55, 1, ∞_{12}
36, 73, ∞_{13}	38	74, 36, ∞_{13}	31, 57, ∞_{14}	21	52, 3, ∞_{14}
C		R		A (1,2;3)-frame of type $3^{27}15^1$	
26, 52, 78		8, 15, 25			
19, 38, 57		16, 30, 44			
17, 33, 49		18, 35, 55			
10, 21, 32		23, 45, 70			
5, 9, 13		22, 42, 65			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
16, 28, 61	1	17, 29, 62	8, 14, 20	6	14, 20, 26
7, 12, 15	21	28, 33, 36	23, 64, 79	8	31, 72, 6
22, 35, 59	2	24, 37, 61	18, 31, 41	16	34, 47, 57
30, 48, 80	10	40, 58, 9	29, 47, 68	3	32, 50, 71
24, 39, 63	14	38, 53, 77	1, 2, 3	65	66, 67, 68
4, 6, 34	45	49, 51, 79	11, 51, ∞_0	73	3, 43, ∞_0
25, 58, ∞_1	69	13, 46, ∞_1	36, 70, ∞_2	5	41, 75, ∞_2
37, 72, ∞_3	11	48, 2, ∞_3	40, 76, ∞_4	24	64, 19, ∞_4
42, 77, ∞_5	78	39, 74, ∞_5	43, 73, ∞_6	13	56, 5, ∞_6
44, 75, ∞_7	58	21, 52, ∞_7	45, 74, ∞_8	18	63, 11, ∞_8
46, 55, ∞_9	36	1, 10, ∞_9	50, 71, ∞_{10}	9	59, 80, ∞_{10}
53, 60, ∞_{11}	25	78, 4, ∞_{11}	56, 65, ∞_{12}	4	60, 69, ∞_{12}
62, 67, ∞_{13}	26	7, 12, ∞_{13}	66, 69, ∞_{14}	7	73, 76, ∞_{14}
C		R		A (1,2;3)-frame of type $3^{29}15^1$	
28, 54, 80		26, 51, 79			
23, 45, 70		19, 38, 57			
18, 35, 55		16, 30, 44			
14, 24, 37		10, 21, 32			
7, 12, 20		5, 9, 13			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
17, 32, 64	1	18, 33, 65	13, 30, 46	4	17, 34, 50
11, 26, 38	9	20, 35, 47	25, 59, 68	2	27, 61, 70
21, 44, 62	10	31, 54, 72	19, 39, 57	3	22, 42, 60
33, 65, 72	6	39, 71, 78	31, 61, 85	5	36, 66, 3
27, 48, 83	16	43, 64, 12	1, 2, 3	22	23, 24, 25
4, 6, 9	71	75, 77, 80	5, 8, 15	40	45, 48, 55
10, 16, 47	36	46, 52, 83	22, 67, ∞_0	69	4, 49, ∞_0
34, 75, ∞_1	68	15, 56, ∞_1	36, 81, ∞_2	65	14, 59, ∞_2
40, 76, ∞_3	48	1, 37, ∞_3	41, 84, ∞_4	43	84, 40, ∞_4
42, 78, ∞_5	11	53, 2, ∞_5	43, 82, ∞_6	33	76, 28, ∞_6
49, 73, ∞_7	13	62, 86, ∞_7	50, 66, ∞_8	32	82, 11, ∞_8
51, 63, ∞_9	18	69, 81, ∞_9	52, 79, ∞_{10}	76	41, 68, ∞_{10}
53, 74, ∞_{11}	21	74, 8, ∞_{11}	56, 86, ∞_{12}	7	63, 6, ∞_{12}
60, 69, ∞_{13}	25	85, 7, ∞_{13}	71, 77, ∞_{14}	83	67, 73, ∞_{14}

Table A (Cont.) (S, C, R) and A for (1, 2; 3)-frames of type $3^u(3\ell)^1$

C		R		A (1, 2; 3)-frame of type $3^{33}15^1$		
Starter	Adder	Starter+ Adder	Starter			
29, 63, 94		14, 24, 37				
27, 55, 80		22, 41, 60				
23, 45, 70		26, 52, 78				
19, 35, 51		28, 57, 86				
17, 34, 54		8, 15, 25				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
10, 18, 53	1	11, 19, 54	7, 11, 16	2	9, 13, 18	
5, 8, 12	15	20, 23, 27	15, 26, 75	6	21, 32, 81	
14, 20, 32	16	30, 36, 48	13, 21, 36	22	35, 43, 58	
28, 68, 86	3	31, 71, 89	25, 38, 76	4	29, 42, 80	
22, 31, 43	18	40, 49, 61	40, 67, 97	5	45, 72, 3	
39, 59, 95	8	47, 67, 4	30, 62, 83	14	44, 76, 97	
44, 74, 98	11	55, 85, 10	42, 57, 92	41	83, 98, 34	
41, 65, 96	9	50, 74, 6	1, 2, 3	62	63, 64, 65	
4, 6, 46	47	51, 53, 93	9, 60, ∞_0	95	5, 56, ∞_0	
24, 52, ∞_1	49	73, 2, ∞_1	37, 81, ∞_2	57	94, 39, ∞_2	
47, 84, ∞_3	32	79, 17, ∞_3	48, 93, ∞_4	52	1, 46, ∞_4	
49, 85, ∞_5	26	75, 12, ∞_5	50, 89, ∞_6	87	38, 77, ∞_6	
56, 78, ∞_7	13	69, 91, ∞_7	58, 72, ∞_8	10	68, 82, ∞_8	
61, 88, ∞_9	27	88, 16, ∞_9	64, 69, ∞_{10}	23	87, 92, ∞_{10}	
71, 82, ∞_{11}	24	95, 7, ∞_{11}	73, 79, ∞_{12}	17	90, 96, ∞_{12}	
77, 91, ∞_{13}	92	70, 84, ∞_{13}	87, 90, ∞_{14}	71	59, 62, ∞_{14}	
C		R		A (1, 2; 3)-frame of type $3^{37}15^1$		
Starter	Adder	Starter+ Adder	Starter			
33, 65, 100		10, 21, 32				
28, 56, 87		16, 29, 45				
17, 31, 48		30, 59, 91				
26, 51, 73		27, 55, 80				
22, 41, 60		18, 38, 52				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
1, 2, 58	104	105, 106, 51	39, 69, 107	10	49, 79, 6	
40, 66, 105	52	92, 7, 46	42, 72, 108	36	78, 108, 33	
43, 77, 103	91	23, 57, 83	7, 11, 55	1	8, 12, 56	
5, 8, 12	12	17, 20, 24	4, 6, 9	5	9, 11, 14	
14, 20, 78	8	22, 28, 86	13, 19, 29	6	19, 25, 35	
10, 18, 25	16	26, 34, 41	24, 80, 93	7	31, 87, 100	
21, 30, 45	18	39, 48, 63	15, 23, 35	27	42, 50, 62	
38, 59, 101	2	40, 61, 103	36, 53, 98	73	109, 15, 60	
27, 62, 89	26	53, 88, 4	52, 85, 109	103	44, 77, 101	
50, 68, 91	22	72, 90, 2	49, 70, 110	44	93, 3, 43	
46, 79, 106	101	36, 69, 96	3, 44, ∞_0	72	75, 5, ∞_0	
16, 75, ∞_1	83	99, 47, ∞_1	32, 71, ∞_2	53	85, 13, ∞_2	
34, 99, ∞_3	70	104, 58, ∞_3	47, 83, ∞_4	29	76, 1, ∞_4	
54, 63, ∞_5	19	73, 82, ∞_5	57, 97, ∞_6	108	54, 94, ∞_6	
61, 104, ∞_7	3	64, 107, ∞_7	64, 82, ∞_8	20	84, 102, ∞_8	
67, 90, ∞_9	110	66, 89, ∞_9	76, 81, ∞_{10}	100	65, 70, ∞_{10}	
84, 96, ∞_{11}	14	98, 110, ∞_{11}	86, 88, ∞_{12}	9	95, 97, ∞_{12}	
92, 102, ∞_{13}	90	71, 81, ∞_{13}	94, 95, ∞_{14}	84	67, 68, ∞_{14}	

Table B (S, C, R) and A for $(1, 2; 3)$ -frames of type $6^u(3\ell)^1$

C		R		A (1,2;3)-frame of type $6^{14}6^1$		
23, 43, 66		10, 21, 32				
18, 35, 55		5, 9, 13				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
37, 64, 76	1	38, 65, 77	32, 45, 81	2	34, 47, 83	
25, 51, 75	4	29, 55, 79	24, 49, 62	9	33, 58, 71	
20, 52, 73	5	25, 57, 78	38, 57, 78	3	41, 60, 81	
36, 60, 83	7	43, 67, 6	34, 61, 79	12	46, 73, 7	
33, 58, 77	52	1, 26, 45	31, 53, 82	71	18, 40, 69	
1, 2, 3	73	74, 75, 76	4, 6, 9	44	48, 50, 53	
5, 8, 13	31	36, 39, 44	7, 17, 48	13	20, 30, 61	
10, 19, 26	77	3, 12, 19	11, 27, 65	81	8, 24, 62	
12, 41, 47	74	2, 31, 37	15, 21, 69	67	82, 4, 52	
16, 67, 74	33	49, 16, 23	22, 39, 54	41	63, 80, 11	
29, 44, ∞_0	22	51, 66, ∞_0	30, 40, ∞_1	24	54, 64, ∞_1	
46, 80, ∞_2	26	72, 22, ∞_2	50, 68, ∞_3	51	17, 35, ∞_3	
59, 71, ∞_4	40	15, 27, ∞_4	63, 72, ∞_5	80	59, 68, ∞_5	
C		R		A (1,2;3)-frame of type $6^{16}6^1$		
14, 24, 37		27, 56, 85				
23, 45, 67		30, 58, 92				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
38, 51, 71	1	39, 52, 72	34, 65, 84	2	36, 67, 86	
25, 50, 86	3	28, 53, 89	22, 58, 85	12	34, 70, 1	
19, 30, 87	7	26, 37, 94	47, 72, 89	4	51, 76, 93	
44, 62, 93	6	50, 68, 3	31, 49, 90	10	41, 59, 4	
29, 59, 74	14	43, 73, 88	27, 41, 81	20	47, 61, 5	
43, 66, 92	11	54, 77, 7	42, 69, 95	36	78, 9, 35	
40, 70, 91	71	15, 45, 66	36, 55, 76	19	55, 74, 95	
33, 53, 77	65	2, 22, 46	1, 2, 3	18	19, 20, 21	
4, 6, 9	56	60, 62, 65	5, 8, 15	76	81, 84, 91	
7, 13, 94	31	38, 44, 29	10, 56, 68	15	25, 71, 83	
11, 28, 35	79	90, 11, 18	12, 18, 26	5	17, 23, 31	
17, 21, 78	58	75, 79, 40	20, 75, 79	29	49, 8, 12	
39, 82, ∞_0	24	63, 10, ∞_0	46, 57, ∞_1	63	13, 24, ∞_1	
52, 60, ∞_2	50	6, 14, ∞_2	54, 63, ∞_3	75	33, 42, ∞_3	
61, 73, ∞_4	92	57, 69, ∞_4	83, 88, ∞_5	95	82, 87, ∞_5	
C		R		A (1,2;3)-frame of type $6^{17}6^1$		
31, 63, 98		19, 33, 47				
27, 52, 80		23, 43, 66				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
14, 20, 30	93	5, 11, 21	13, 28, 93	16	29, 44, 7	
10, 19, 69	82	92, 101, 49	7, 11, 16	25	32, 36, 41	
5, 8, 12	76	81, 84, 88	43, 54, 84	2	45, 56, 86	
36, 49, 61	1	37, 50, 62	35, 53, 92	4	39, 57, 96	
24, 64, 76	3	27, 67, 79	22, 48, 87	6	28, 54, 93	
46, 66, 82	7	53, 73, 89	38, 57, 86	8	46, 65, 94	
37, 70, 94	50	87, 18, 42	29, 50, 91	74	1, 22, 63	
26, 39, 58	32	58, 71, 90	45, 72, 101	70	13, 40, 69	
44, 75, 99	33	77, 6, 30	42, 73, 96	84	24, 55, 78	
41, 71, 97	20	61, 91, 15	40, 62, 95	71	9, 31, 64	
1, 2, 3	97	98, 99, 100	4, 6, 9	66	70, 72, 75	
15, 21, 79	61	76, 82, 38	18, 33, 60	62	80, 95, 20	
23, 59, 67	95	16, 52, 60	25, 78, 89	72	97, 48, 59	
32, 74, ∞_0	42	74, 14, ∞_0	47, 55, ∞_1	59	4, 12, ∞_1	
56, 77, ∞_2	27	83, 2, ∞_2	65, 83, ∞_3	45	8, 26, ∞_3	
81, 88, ∞_4	24	3, 10, ∞_4	90, 100, ∞_5	37	25, 35, ∞_5	
C		R		A (1,2;3)-frame of type $6^{19}6^1$		
34, 68, 102		29, 60, 91				
26, 51, 79		16, 30, 44				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
42, 87, 109	83	11, 56, 78	45, 74, 110	36	81, 110, 32	
55, 77, 107	99	40, 62, 92	7, 13, 25	75	82, 88, 100	
20, 35, 59	104	10, 25, 49	12, 75, 82	73	85, 34, 41	
54, 80, 113	54	108, 20, 53	1, 2, 3	67	68, 69, 70	
43, 69, 111	24	67, 93, 21	48, 61, 93	18	66, 79, 111	
28, 39, 71	58	86, 97, 15	22, 63, 78	42	64, 105, 6	
27, 67, 91	69	96, 22, 46	11, 15, 18	101	112, 2, 5	
46, 83, 112	1	47, 84, 113	4, 6, 9	100	104, 106, 109	
44, 65, 100	103	33, 54, 89	32, 86, 103	4	36, 90, 107	
31, 81, 98	20	51, 101, 4	40, 49, 60	12	52, 61, 72	
47, 72, 108	30	77, 102, 24	5, 10, 23	32	37, 42, 55	
36, 73, 96	7	43, 80, 103	8, 52, 92	23	31, 75, 1	
41, 64, 106	53	94, 3, 45	37, 58, 85	13	50, 71, 98	
33, 53, 88	89	8, 28, 63	14, 24, 30	107	7, 17, 23	
16, 89, 97	43	59, 18, 26	17, 29, 56	70	87, 99, 12	
21, 84, ∞_0	44	65, 14, ∞_0	50, 66, ∞_1	8	58, 74, ∞_1	
62, 70, ∞_2	79	27, 35, ∞_2	90, 99, ∞_3	63	39, 48, ∞_3	
94, 104, ∞_4	93	73, 83, ∞_4	101, 105, ∞_5	22	9, 13, ∞_5	

Table B (Cont.) (S, C, R) and A for (1, 2; 3)-frames of type $6^u(3\ell)^1$

C		R		A (1, 2; 3)-frame of type $6^{22}6^1$		
45, 86, 127 29, 58, 87		36, 70, 113 16, 27, 41				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
23, 30, 125	119	10, 17, 112	32, 47, 129	8	40, 55, 5	
34, 79, 97	23	57, 102, 120	43, 53, 69	100	11, 21, 37	
40, 72, 114	93	1, 33, 75	1, 4, 131	105	106, 109, 104	
2, 15, 98	41	43, 56, 7	3, 73, 101	78	81, 19, 47	
56, 111, 113	104	28, 83, 85	10, 107, 130	20	30, 127, 18	
37, 61, 85	129	34, 58, 82	35, 42, 62	25	60, 67, 87	
60, 93, 120	26	86, 119, 14	7, 78, 116	107	114, 53, 91	
8, 11, 17	51	59, 62, 68	59, 90, 108	96	23, 54, 72	
18, 57, 83	113	131, 38, 64	9, 94, 95	127	4, 89, 90	
28, 64, 123	116	12, 48, 107	6, 51, 91	67	73, 118, 26	
39, 109, 128	128	35, 105, 124	50, 71, 122	90	8, 29, 80	
46, 67, 77	31	77, 98, 108	41, 102, 119	33	74, 3, 20	
31, 99, 124	1	32, 100, 125	20, 48, 100	74	94, 122, 42	
54, 65, 118	130	52, 63, 116	55, 70, 112	14	69, 84, 126	
49, 81, 82	47	96, 128, 129	5, 14, 68	10	15, 24, 78	
13, 19, 27	12	25, 31, 39	12, 16, 24	87	99, 103, 111	
21, 26, 74	71	92, 97, 13	25, 63, 76	54	79, 117, 130	
33, 89, 106	32	65, 121, 6	36, 52, 92	9	45, 61, 101	
38, 103, ∞_0	38	76, $9, \infty_0$	75, 105, ∞_1	18	93, 123, ∞_1	
80, 126, ∞_2	101	49, $95, \infty_2$	84, 104, ∞_3	99	51, 71, ∞_3	
96, 115, ∞_4	19	115, $2, \infty_4$	117, 121, ∞_5	61	46, 50, ∞_5	
C		R		A (1, 2; 3)-frame of type $6^{22}6^1$		
43, 87, 131 36, 76, 110		39, 79, 122 30, 58, 89				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
6, 84, 103	62	68, 8, 27	31, 104, 120	93	124, 59, 75	
15, 89, 101	17	32, 106, 118	34, 53, 134	121	17, 36, 117	
64, 99, 119	83	9, 44, 64	12, 111, 118	136	10, 109, 116	
39, 60, 81	61	100, 121, 4	28, 59, 95	105	133, 26, 62	
40, 83, 121	14	54, 97, 135	14, 20, 29	129	5, 11, 20	
56, 67, 85	26	82, 93, 111	58, 62, 130	29	87, 91, 21	
24, 54, 80	96	120, 12, 38	7, 8, 10	40	47, 48, 50	
18, 26, 38	35	53, 61, 73	44, 96, 128	82	126, 40, 72	
30, 47, 63	13	43, 60, 76	50, 68, 117	95	7, 25, 74	
35, 48, 57	84	119, 132, 3	32, 109, 123	119	13, 90, 104	
22, 33, 112	134	18, 29, 108	51, 78, 79	20	71, 98, 99	
21, 45, 105	7	28, 52, 112	65, 82, 133	72	137, 16, 67	
70, 107, 132	37	107, 6, 31	9, 16, 19	47	56, 63, 66	
25, 61, 122	111	136, 34, 95	55, 106, 135	116	33, 84, 113	
3, 75, 137	78	81, 15, 77	72, 77, 114	11	83, 88, 125	
5, 11, 13	118	123, 129, 131	17, 27, 90	38	55, 65, 128	
2, 37, 52	49	51, 86, 101	1, 86, 125	109	110, 57, 96	
4, 49, 94	81	85, 130, 37	66, 88, 113	74	2, 24, 49	
41, 71, 97	86	127, 19, 45	42, 100, 127	52	94, 14, 41	
73, 136, ∞_0	107	42, $105, \infty_0$	74, 108, ∞_1	6	80, 114, ∞_1	
91, 124, ∞_2	117	70, $103, \infty_2$	93, 98, ∞_3	41	134, $1, \infty_3$	
102, 126, ∞_4	114	78, $102, \infty_4$	116, 129, ∞_5	44	22, 35, ∞_5	
C		R		A (1, 2; 3)-frame of type $6^8 9^1$		
4, 6, 11 7, 12, 26 13, 23, 36		5, 9, 19 10, 14, 21 15, 35, 46				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
1, 2, 3	1	2, 3, 4	5, 14, 17	12	17, 26, 29	
9, 15, 30	13	22, 28, 43	10, 22, 37	23	33, 45, 12	
18, 35, 44	43	13, 30, 39	19, 38, ∞_0	6	25, 44, ∞_0	
20, 43, ∞_1	11	31, $6, \infty_1$	21, 41, ∞_2	45	18, 38, ∞_2	
25, 47, ∞_3	2	27, $1, \infty_3$	27, 45, ∞_4	14	41, 11, ∞_4	
28, 46, ∞_5	9	37, $7, \infty_5$	29, 42, ∞_6	5	34, 47, ∞_6	
31, 34, ∞_7	37	20, $23, \infty_7$	33, 39, ∞_8	3	36, 42, ∞_8	
C		R		A (1, 2; 3)-frame of type $6^9 9^1$		
4, 6, 11 7, 14, 24 15, 26, 34		8, 12, 16 19, 33, 50 13, 23, 39				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
1, 2, 3	1	2, 3, 4	5, 8, 19	2	7, 10, 21	
10, 13, 25	15	25, 28, 40	12, 28, 41	14	26, 42, 1	
16, 37, 49	49	11, 32, 44	17, 40, 46	13	30, 53, 5	
20, 39, 44	4	24, 43, 48	21, 43, ∞_0	17	38, $6, \infty_0$	
22, 48, ∞_1	47	15, 41, ∞_1	23, 47, ∞_2	29	52, 22, ∞_2	
29, 42, ∞_3	5	34, 47, ∞_3	30, 52, ∞_4	16	46, 14, ∞_4	
31, 51, ∞_5	20	51, 17, ∞_5	32, 38, ∞_6	53	31, 37, ∞_6	
33, 53, ∞_7	50	29, 49, ∞_7	35, 50, ∞_8	39	20, 35, ∞_8	

Table B (Cont.) (S, C, R) and A for (1, 2; 3)-frames of type $6^u(3\ell)^1$

C		R	A (1, 2; 3)-frame of type $6^{22}30^1$		
45, 86, 127		40, 80, 120			
36, 70, 113		34, 65, 102			
32, 67, 105		31, 63, 98			
30, 64, 95		29, 58, 87			
28, 56, 84		26, 52, 78			
23, 42, 61		19, 39, 62			
18, 38, 55		17, 33, 49			
10, 21, 35		14, 24, 37			
16, 27, 41		7, 12, 20			
5, 9, 13		8, 15, 25			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
37, 90, 108	16	53, 106, 124	34, 80, 116	12	46, 92, 128
33, 54, 102	17	50, 71, 119	31, 73, 103	4	35, 77, 107
29, 53, 104	14	43, 67, 118	1, 2, 57	2	3, 4, 59
4, 6, 11	5	9, 11, 16	7, 19, 78	11	18, 30, 89
8, 14, 17	24	32, 38, 41	12, 15, 24	30	42, 45, 54
20, 62, 83	7	27, 69, 90	26, 50, 65	10	36, 60, 75
3, 71, ∞_0	3	6, 74, ∞_0	25, 79, ∞_1	26	51, 105, ∞_1
43, 100, ∞_2	13	56, 113, ∞_2	47, 107, ∞_3	1	48, 108, ∞_3
49, 111, ∞_4	6	55, 117, ∞_4	52, 97, ∞_5	18	70, 115, ∞_5
59, 112, ∞_6	9	68, 121, ∞_6	74, 89, ∞_7	8	82, 97, ∞_7
81, 128, ∞_8	61	10, 57, ∞_8	82, 109, ∞_9	21	103, 130, ∞_9
85, 115, ∞_{10}	111	64, 94, ∞_{10}	87, 114, ∞_{11}	129	84, 111, ∞_{11}
92, 131, ∞_{12}	126	86, 125, ∞_{12}	93, 99, ∞_{13}	34	127, 1, ∞_{13}
96, 129, ∞_{14}	119	83, 116, ∞_{14}	101, 119, ∞_{15}	122	91, 109, ∞_{15}
117, 118, ∞_{16}	114	99, 100, ∞_{16}	123, 125, ∞_{17}	121	112, 114, ∞_{17}
40, 76, ∞_{18}	53	93, 129, ∞_{18}	48, 94, ∞_{19}	37	85, 131, ∞_{19}
60, 130, ∞_{20}	74	2, 72, ∞_{20}	77, 126, ∞_{21}	102	47, 96, ∞_{21}
75, 124, ∞_{22}	130	73, 122, ∞_{22}	69, 120, ∞_{23}	91	28, 79, ∞_{23}
68, 122, ∞_{24}	33	101, 23, ∞_{24}	63, 121, ∞_{25}	32	95, 21, ∞_{25}
58, 106, ∞_{26}	87	13, 61, ∞_{26}	51, 98, ∞_{27}	25	76, 123, ∞_{27}
46, 91, ∞_{28}	35	81, 126, ∞_{28}	39, 72, ∞_{29}	65	104, 5, ∞_{29}
C		R	A (1, 2; 3)-frame of type $6^{23}30^1$		
43, 87, 131		41, 82, 123			
39, 79, 122		38, 75, 112			
36, 76, 110		35, 70, 108			
34, 66, 101		30, 58, 89			
28, 54, 86		27, 52, 80			
26, 51, 73		4, 6, 11			
19, 33, 53		16, 29, 45			
17, 31, 48		22, 42, 71			
14, 24, 40		18, 37, 56			
7, 12, 20		8, 15, 25			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
22, 84, 99	102	124, 48, 63	21, 30, 91	36	57, 66, 127
11, 41, 62	44	55, 85, 106	10, 13, 37	41	51, 54, 78
6, 15, 18	13	19, 28, 31	38, 83, 116	1	39, 84, 117
32, 65, 117	2	34, 67, 119	29, 35, 100	14	43, 49, 114
47, 95, 113	3	50, 98, 116	44, 55, 112	9	53, 64, 121
42, 63, 129	5	47, 68, 134	1, 2, 3	11	12, 13, 14
4, 8, 16	16	20, 24, 32	5, 9, 27	72	77, 81, 99
49, 94, ∞_0	53	102, 9, ∞_0	56, 104, ∞_1	122	40, 88, ∞_1
60, 109, ∞_2	27	87, 136, ∞_2	61, 111, ∞_3	113	36, 86, ∞_3
64, 120, ∞_4	77	3, 59, ∞_4	70, 133, ∞_5	6	76, 1, ∞_5
74, 137, ∞_6	126	62, 125, ∞_6	77, 136, ∞_7	133	72, 131, ∞_7
75, 135, ∞_8	68	5, 65, ∞_8	72, 127, ∞_9	28	100, 17, ∞_9
82, 106, ∞_{10}	29	111, 135, ∞_{10}	80, 119, ∞_{11}	137	79, 118, ∞_{11}
68, 125, ∞_{12}	39	107, 26, ∞_{12}	78, 132, ∞_{13}	50	128, 44, ∞_{13}
57, 96, ∞_{14}	33	90, 129, ∞_{14}	71, 118, ∞_{15}	30	101, 10, ∞_{15}
52, 58, ∞_{16}	45	97, 103, ∞_{16}	93, 108, ∞_{17}	37	130, 7, ∞_{17}
59, 89, ∞_{18}	51	110, 2, ∞_{18}	88, 130, ∞_{19}	7	95, 137, ∞_{19}
103, 114, ∞_{20}	118	83, 94, ∞_{20}	81, 123, ∞_{21}	10	91, 133, ∞_{21}
50, 102, ∞_{22}	24	74, 126, ∞_{22}	98, 134, ∞_{23}	136	96, 132, ∞_{23}
97, 124, ∞_{24}	134	93, 120, ∞_{24}	90, 126, ∞_{25}	121	73, 109, ∞_{25}
85, 128, ∞_{26}	114	61, 104, ∞_{26}	67, 121, ∞_{27}	38	105, 21, ∞_{27}
45, 107, ∞_{28}	15	60, 122, ∞_{28}	25, 105, ∞_{29}	8	33, 113, ∞_{29}

Table B (Cont.) (S,C,R) and A for (1,2;3)-frames of type $6^u(3\ell)^1$

C		R		A (1,2;3)-frame of type $6^{27}30^1$		
53, 105, 157		52, 102, 155				
50, 99, 148		48, 95, 139				
46, 92, 138		43, 83, 126				
40, 77, 117		36, 71, 109				
34, 66, 101		29, 58, 84				
28, 59, 90		4, 6, 11				
22, 42, 65		47, 91, 141				
17, 33, 49		39, 73, 107				
8, 15, 25		23, 45, 70				
14, 24, 37		18, 35, 55				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
47, 71, 145	3	50, 74, 148	44, 113, 132	2	46, 115, 134	
39, 84, 114	5	44, 89, 119	52, 127, 152	1	53, 128, 153	
51, 79, 120	9	60, 88, 129	48, 119, 155	8	56, 127, 1	
64, 106, 136	4	68, 110, 140	63, 111, 139	6	69, 117, 145	
61, 100, 151	14	75, 114, 3	60, 102, 159	16	76, 118, 13	
57, 96, 137	7	64, 103, 144	1, 2, 3	13	14, 15, 16	
4, 7, 10	15	19, 22, 25	5, 9, 13	19	24, 28, 32	
6, 11, 19	114	120, 125, 133	12, 18, 30	68	80, 86, 98	
16, 31, 45	143	159, 12, 26	20, 29, 38	123	143, 152, 161	
21, 32, 43	80	101, 112, 123	23, 68, 129	90	113, 158, 57	
26, 104, 128	67	93, 9, 33	35, 115, 130	129	2, 82, 97	
72, 125, ∞_0	32	104, 157, ∞_0	70, 126, ∞_1	20	90, 146, ∞_1	
83, 160, ∞_2	144	65, 142, ∞_2	94, 142, ∞_3	62	156, 42, ∞_3	
58, 147, ∞_4	109	5, 94, ∞_4	76, 146, ∞_5	75	151, 59, ∞_5	
91, 149, ∞_6	105	34, 92, ∞_6	78, 141, ∞_7	151	67, 130, ∞_7	
80, 140, ∞_8	159	77, 137, ∞_8	86, 124, ∞_9	116	40, 78, ∞_9	
85, 144, ∞_{10}	140	63, 122, ∞_{10}	95, 161, ∞_{11}	139	72, 138, ∞_{11}	
89, 150, ∞_{12}	22	111, 10, ∞_{12}	107, 133, ∞_{13}	161	106, 132, ∞_{13}	
110, 143, ∞_{14}	50	160, 31, ∞_{14}	73, 109, ∞_{15}	138	49, 85, ∞_{15}	
88, 154, ∞_{16}	28	116, 20, ∞_{16}	74, 131, ∞_{17}	118	30, 87, ∞_{17}	
55, 134, ∞_{18}	124	17, 96, ∞_{18}	67, 118, ∞_{19}	82	149, 38, ∞_{19}	
123, 156, ∞_{20}	160	121, 154, ∞_{20}	98, 112, ∞_{21}	101	37, 51, ∞_{21}	
97, 116, ∞_{22}	53	150, 7, ∞_{22}	93, 158, ∞_{23}	12	105, 8, ∞_{23}	
82, 103, ∞_{24}	121	41, 62, ∞_{24}	75, 87, ∞_{25}	49	124, 136, ∞_{25}	
69, 153, ∞_{26}	30	99, 21, ∞_{26}	56, 121, ∞_{27}	10	66, 131, ∞_{27}	
41, 62, ∞_{28}	38	79, 100, ∞_{28}	36, 122, ∞_{29}	25	61, 147, ∞_{29}	
C		R		A (1,2;3)-frame of type $6^{29}30^1$		
60, 112, 167		56, 111, 163				
52, 108, 164		48, 97, 146				
47, 91, 141		43, 90, 134				
41, 81, 124		31, 62, 93				
36, 73, 107		26, 51, 79				
28, 54, 89		19, 38, 57				
23, 45, 70		16, 30, 44				
18, 35, 55		8, 15, 25				
14, 24, 37		40, 74, 114				
7, 12, 20		4, 6, 11				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
39, 77, 104	3	42, 80, 107	34, 76, 102	1	35, 77, 103	
33, 119, 137	4	37, 123, 141	61, 85, 136	6	67, 91, 142	
43, 111, 144	7	50, 118, 151	42, 134, 166	5	47, 139, 171	
65, 100, 146	8	73, 108, 154	51, 117, 156	2	53, 119, 158	
50, 103, 154	10	60, 113, 164	48, 90, 120	11	59, 101, 131	
44, 118, 172	19	63, 137, 17	64, 105, 148	12	76, 117, 160	
63, 129, 168	9	72, 138, 3	62, 126, 171	21	83, 147, 18	
56, 101, 149	26	82, 127, 1	53, 113, 173	13	66, 126, 12	
1, 2, 3	20	21, 22, 23	4, 8, 16	117	121, 125, 133	
5, 9, 21	152	157, 161, 173	6, 15, 26	114	120, 129, 140	
10, 13, 19	75	85, 88, 94	11, 17, 169	89	100, 106, 84	
22, 25, 40	24	46, 49, 64	27, 38, 59	97	124, 135, 156	
30, 106, 127	22	52, 128, 149	31, 110, 125	119	150, 55, 70	
94, 121, ∞_0	85	5, 32, ∞_0	86, 157, ∞_1	127	39, 110, ∞_1	
97, 170, ∞_2	65	162, 61, ∞_2	114, 150, ∞_3	18	132, 168, ∞_3	
93, 165, ∞_4	101	20, 92, ∞_4	71, 130, ∞_5	72	143, 28, ∞_5	
84, 162, ∞_6	46	130, 34, ∞_6	88, 163, ∞_7	110	24, 99, ∞_7	
98, 131, ∞_8	121	45, 78, ∞_8	95, 158, ∞_9	14	109, 172, ∞_9	
80, 159, ∞_{10}	90	170, 75, ∞_{10}	75, 138, ∞_{11}	77	152, 41, ∞_{11}	
78, 142, ∞_{12}	27	105, 169, ∞_{12}	79, 161, ∞_{13}	23	102, 10, ∞_{13}	
82, 143, ∞_{14}	146	54, 115, ∞_{14}	132, 155, ∞_{15}	33	165, 14, ∞_{15}	
96, 153, ∞_{16}	143	65, 122, ∞_{16}	109, 133, ∞_{17}	50	159, 9, ∞_{17}	
69, 128, ∞_{18}	141	36, 95, ∞_{18}	99, 147, ∞_{19}	108	33, 81, ∞_{19}	
92, 122, ∞_{20}	44	136, 166, ∞_{20}	83, 140, ∞_{21}	61	144, 27, ∞_{21}	
74, 115, ∞_{22}	38	112, 153, ∞_{22}	72, 160, ∞_{23}	83	155, 69, ∞_{23}	
67, 152, ∞_{24}	120	13, 98, ∞_{24}	66, 151, ∞_{25}	30	96, 7, ∞_{25}	
57, 135, ∞_{26}	32	89, 167, ∞_{26}	49, 139, ∞_{27}	37	86, 2, ∞_{27}	
46, 123, ∞_{28}	25	71, 148, ∞_{28}	32, 68, ∞_{29}	36	68, 104, ∞_{29}	

Table C (S, C, R) and A for $(1, 2; 3)$ -frames of type $9^u(3\ell)^1$

C		R		A (1, 2, 3)-frame of type $9^5 9^1$		
4, 6, 17 8, 12, 31 13, 21, 29		7, 11, 18 9, 16, 32 14, 28, 42				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
1, 2, 3 9, 18, 36 14, 26, ∞_1 23, 42, ∞_3 27, 44, ∞_5 33, 39, ∞_7	36 13 7 6 37 14	37, 38, 39 22, 31, 4 21, 33, ∞_1 29, 3, ∞_3 19, 36, ∞_5 2, 8, ∞_7	7, 16, 19 11, 32, ∞_0 22, 43, ∞_2 24, 37, ∞_4 28, 34, ∞_6 38, 41, ∞_8	27 12 19 34 23 31	34, 43, 1 23, 44, ∞_0 41, 17, ∞_2 13, 26, ∞_4 6, 12, ∞_6 24, 27, ∞_8	
C		R		A (1, 2, 3)-frame of type $9^7 9^1$		
22, 38, 54 19, 39, 62 18, 37, 59		12, 29, 46 11, 24, 34 8, 16, 27				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
1, 2, 3 5, 8, 13 11, 15, 40 17, 41, 50 25, 43, 55 27, 52, ∞_1 30, 45, ∞_3 32, 58, ∞_5 34, 46, ∞_7	1 18 40 52 60 10 3 50 27	2, 3, 4 23, 26, 31 51, 55, 17 6, 30, 39 22, 40, 52 37, 62, ∞_1 33, 48, ∞_3 19, 45, ∞_5 61, 10, ∞_7	4, 6, 9 10, 16, 20 12, 23, 36 24, 51, 60 26, 44, ∞_0 29, 61, ∞_2 31, 57, ∞_4 33, 48, ∞_6 47, 53, ∞_8	9 34 24 8 62 43 26 5 11	13, 15, 18 44, 50, 54 36, 47, 60 32, 59, 5 25, 43, ∞_0 9, 41, ∞_2 57, 20, ∞_4 38, 53, ∞_6 58, 1, ∞_8	
C		R		A (1, 2, 3)-frame of type $9^{11} 9^1$		
31, 59, 93 29, 57, 91 25, 51, 83		20, 39, 58 10, 23, 30 27, 56, 85				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
41, 58, 97 30, 53, 65 21, 37, 52 43, 67, 92 38, 78, 95 1, 2, 3 5, 8, 12 10, 15, 23 16, 26, 62 19, 49, 70 36, 75, 89 46, 61, ∞_1 50, 90, ∞_3 63, 98, ∞_5 69, 87, ∞_7	1 7 10 8 16 12 59 72 53 86 48 57 26 27 37	42, 59, 98 37, 60, 72 31, 47, 62 51, 75, 1 54, 94, 12 13, 14, 15 64, 67, 71 82, 87, 95 69, 79, 16 6, 36, 57 84, 24, 38 4, 19, ∞_1 76, 17, ∞_3 90, 26, ∞_5 7, 25, ∞_7	32, 48, 79 24, 42, 85 45, 71, 94 39, 64, 96 35, 56, 86 4, 6, 9 7, 13, 17 14, 20, 28 18, 27, 72 34, 54, 81 40, 76, ∞_0 47, 74, ∞_2 60, 84, ∞_4 68, 80, ∞_6 73, 82, ∞_8	2 4 3 6 5 74 79 21 90 39 28 54 47 84 69	34, 50, 81 28, 46, 89 48, 74, 97 45, 70, 3 40, 61, 91 78, 80, 83 86, 92, 96 35, 41, 49 9, 18, 63 73, 93, 21 68, 5, ∞_0 2, 29, ∞_2 8, 32, ∞_4 53, 65, ∞_6 43, 52, ∞_8	
C		R		A (1, 2, 3)-frame of type $9^{13} 9^1$		
35, 66, 106 33, 67, 101 24, 47, 64		30, 53, 85 34, 69, 107 14, 28, 36				
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder	
29, 51, 71 21, 31, 40 18, 28, 63 36, 57, 103 27, 70, 99 55, 76, 113 43, 68, 96 37, 74, 98 49, 80, 116 46, 79, 109 1, 2, 3 5, 11, 60 8, 15, 20 12, 16, 59 34, 50, ∞_1 77, 92, ∞_3 83, 94, ∞_5 93, 102, ∞_7	3 4 9 5 16 8 14 109 84 18 86 62 108 43 69 47 17 95	32, 54, 74 25, 35, 44 27, 37, 72 41, 62, 108 43, 86, 115 63, 84, 4 57, 82, 110 29, 66, 90 16, 47, 83 64, 97, 10 87, 88, 89 67, 73, 5 116, 6, 11 55, 59, 102 103, 2, ∞_1 7, 22, ∞_3 100, 111, ∞_5 71, 80, ∞_7	22, 69, 97 19, 30, 44 38, 56, 107 32, 73, 90 23, 41, 89 54, 87, 111 42, 62, 115 53, 82, 114 48, 75, 105 45, 72, 108 4, 6, 10 7, 14, 112 9, 85, 88 17, 25, ∞_0 58, 61, ∞_2 81, 86, ∞_4 84, 100, ∞_6 95, 110, ∞_8	1 12 2 6 10 7 50 23 20 90 11 106 41 89 105 55 110 82	23, 70, 98 31, 42, 56 40, 58, 109 38, 79, 96 33, 51, 99 61, 94, 1 92, 112, 48 76, 105, 20 68, 95, 8 18, 45, 81 15, 17, 21 113, 3, 101 50, 9, 12 106, 114, ∞_0 46, 49, ∞_2 19, 24, ∞_4 77, 93, ∞_6 60, 75, ∞_8	

Table C (Cont.) (S, C, R) and A for (1, 2, 3)-frames of type $9^u(3\ell)^1$

C		R	A (1, 2, 3)-frame of type $9^{14}9^1$		
40, 80, 120 30, 61, 92 23, 43, 66		34, 68, 105 31, 63, 104 36, 71, 109			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
19, 26, 35 15, 32, 100 10, 16, 91 33, 111, 122 24, 54, 78 63, 82, 108 39, 57, 107 34, 52, 73 48, 97, 119 45, 67, 114 59, 86, 118 51, 87, 125 49, 76, 110 2, 5, 6 7, 11, 113 31, 109, ∞_0 46, 93, ∞_2 65, 72, ∞_4 95, 101, ∞_6 106, 115, ∞_8	3 8 5 10 13 15 7 27 88 20 125 82 114 38 24 110 41 34 106	22, 29, 38 23, 40, 108 15, 21, 96 43, 121, 6 37, 67, 91 78, 97, 123 46, 64, 114 61, 79, 100 10, 59, 81 65, 87, 8 58, 85, 117 103, 13, 51 5, 32, 66 116, 119, 120 45, 49, 25 55, 7, ∞_0 30, 77, ∞_2 106, 113, ∞_4 3, 9, ∞_6 86, 95, ∞_8	17, 25, 71 13, 18, 29 38, 64, 81 27, 77, 90 22, 37, 88 55, 74, 99 36, 75, 105 60, 89, 124 47, 96, 121 41, 62, 85 58, 94, 123 50, 83, 116 1, 3, 117 4, 9, 12 8, 20, 21 44, 103, ∞_1 53, 68, ∞_3 69, 79, ∞_5 102, 104, ∞_7	1 6 9 12 11 2 17 22 123 53 30 117 59 71 122 25 57 58 76	18, 26, 72 19, 24, 35 47, 73, 90 39, 89, 102 33, 48, 99 57, 76, 101 53, 92, 122 82, 111, 20 44, 93, 118 94, 115, 12 88, 124, 27 41, 74, 107 60, 62, 50 75, 80, 83 4, 16, 17 69, 2, ∞_1 110, 125, ∞_3 1, 11, ∞_5 52, 54, ∞_7
C		R	A (1, 2, 3)-frame of type $9^{17}9^1$		
54, 103, 152 41, 87, 139 38, 78, 118		22, 44, 69 39, 82, 128 31, 63, 98			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
18, 60, 81 42, 71, 141 35, 73, 129 47, 82, 109 7, 16, 26 9, 12, 19 32, 48, 122 20, 29, 117 14, 144, 148 63, 83, 127 57, 70, 96 65, 79, 112 53, 76, 84 62, 106, 138 22, 40, 134 49, 75, 149 64, 95, 133 25, 58, 94 44, 130, 145 61, 121, 143 69, 77, ∞_1 92, 140, ∞_3 98, 128, ∞_5 111, 126, ∞_7	133 50 115 48 83 96 49 81 59 37 124 5 3 42 15 93 63 35 94 145 109 14 13 11	151, 40, 61 92, 121, 38 150, 35, 91 95, 130, 4 90, 99, 109 105, 108, 115 81, 97, 18 101, 110, 45 73, 50, 54 100, 120, 11 28, 41, 67 70, 84, 117 56, 79, 87 104, 148, 27 37, 55, 149 142, 15, 89 127, 5, 43 60, 93, 129 138, 71, 86 53, 113, 135 25, 33, ∞_1 106, 1, ∞_3 111, 141, ∞_5 122, 137, ∞_7	30, 80, 100 27, 43, 88 21, 33, 45 5, 8, 116 23, 37, 50 39, 101, 142 66, 132, 137 4, 6, 11 59, 135, 146 28, 93, 123 1, 2, 3 13, 24, 105 36, 108, 114 46, 74, 99 15, 72, 90 56, 104, 110 31, 52, 89 55, 91, 151 10, 120, 124 67, 147, ∞_0 86, 115, ∞_2 97, 125, ∞_4 107, 131, ∞_6 113, 150, ∞_8	149 19 110 24 139 127 28 128 21 118 123 120 87 131 146 8 121 23 39 80 97 75 38 106	26, 76, 96 46, 62, 107 131, 143, 2 29, 32, 140 9, 23, 36 13, 75, 116 94, 7, 12 132, 134, 139 80, 3, 14 146, 58, 88 124, 125, 126 133, 144, 72 123, 42, 48 24, 52, 77 8, 65, 83 64, 112, 118 152, 20, 57 78, 114, 21 49, 6, 10 147, 74, ∞_0 30, 59, ∞_2 19, 47, ∞_4 145, 16, ∞_6 66, 103, ∞_8
C		R	A (1, 2, 3)-frame of type $9^{19}9^1$		
56, 106, 165 47, 96, 145 41, 81, 124		31, 63, 98 27, 53, 82 17, 33, 49			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
16, 93, 115 42, 50, 167 17, 146, 161 13, 103, 123 29, 80, 125 33, 46, 120 28, 30, 154 21, 155, 164 35, 60, 139 40, 128, 170 8, 126, 136 49, 85, 149 55, 67, 107 63, 118, 141 22, 61, 169 44, 100, 131 2, 68, 82 34, 62, 86 37, 78, 148 73, 74, 77 11, 75, 108 23, 31, 134 83, 110, 160 89, 119, ∞_1 105, 117, ∞_3 132, 166, ∞_5 138, 159, ∞_7	50 27 128 8 54 96 157 22 124 79 67 12 134 104 83 156 45 18 69 122 75 105 160 43 150 162 32	66, 143, 165 69, 77, 23 145, 103, 118 21, 111, 131 83, 134, 8 129, 142, 45 14, 16, 140 43, 6, 15 159, 13, 92 119, 36, 78 75, 22, 32 61, 97, 161 18, 30, 70 167, 51, 74 105, 144, 81 29, 85, 116 47, 113, 127 52, 80, 104 106, 147, 46 24, 25, 28 86, 150, 12 128, 136, 68 72, 99, 149 132, 162, ∞_1 84, 96, ∞_3 123, 157, ∞_5 170, 20, ∞_7	36, 129, 142 10, 27, 147 64, 71, 143 20, 59, 122 43, 91, 156 15, 153, 157 12, 101, 121 53, 70, 88 25, 94, 150 1, 4, 90 45, 51, 52 3, 130, 144 39, 87, 112 48, 58, 69 5, 7, 66 9, 14, 127 24, 92, 158 65, 109, 140 32, 79, 102 6, 97, 168 26, 111, 116 18, 54, 72 84, 99, ∞_0 98, 104, ∞_2 113, 135, ∞_4 137, 163, ∞_6 151, 162, ∞_8	24 111 92 53 170 85 25 127 112 121 3 106 23 100 51 164 10 42 62 4 148 158 40 56 166 123 59	60, 153, 166 121, 138, 87 156, 163, 64 73, 112, 4 42, 90, 155 100, 67, 71 37, 126, 146 9, 26, 44 137, 35, 91 122, 125, 40 48, 54, 55 109, 65, 79 62, 110, 135 148, 158, 169 56, 58, 117 2, 7, 120 34, 102, 168 107, 151, 11 94, 141, 164 10, 101, 1 3, 88, 93 5, 41, 59 124, 139, ∞_0 154, 160, ∞_2 108, 130, ∞_4 89, 115, ∞_6 39, 50, ∞_8

Table C (Cont.) (S, C, R) and A for (1, 2, 3)-frames of type $9^u(3\ell)^1$

C		R	A (1, 2, 3)-frame of type $9^{19}45^1$		
2, 67, 69		43, 87, 134			
1, 86, 87		48, 100, 158			
56, 106, 165		39, 80, 121			
50, 103, 153		46, 92, 138			
47, 96, 145		41, 81, 124			
40, 77, 117		34, 68, 102			
36, 71, 115		29, 60, 91			
31, 63, 98		27, 53, 82			
28, 54, 83		23, 45, 70			
26, 51, 79		22, 42, 65			
18, 35, 55		17, 33, 49			
16, 30, 44		5, 9, 13			
8, 15, 25		7, 12, 20			
4, 6, 11		10, 21, 32			
14, 24, 37		52, 104, 162			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
7, 13, 46	62	69, 75, 108	5, 17, 20	148	153, 165, 168
3, 72, 156	125	128, 26, 110	23, 41, 111	78	101, 119, 18
21, 33, 60	3	24, 36, 63	10, 52, 82	34	44, 86, 116
32, 116, 143	56	88, 1, 28	29, 53, 107	89	118, 142, 25
27, 118, 139	67	94, 14, 35	101, 161, ∞_0	47	148, 37, ∞_0
93, 164, ∞_1	81	3, 74, ∞_1	78, 148, ∞_2	164	71, 141, ∞_2
66, 120, ∞_3	11	77, 131, ∞_3	85, 154, ∞_4	153	67, 136, ∞_4
49, 113, ∞_5	7	56, 120, ∞_5	62, 137, ∞_6	163	54, 129, ∞_6
43, 73, ∞_7	82	125, 155, ∞_7	80, 131, ∞_8	25	105, 156, ∞_8
70, 126, ∞_9	9	79, 135, ∞_9	61, 109, ∞_{10}	52	113, 161, ∞_{10}
48, 84, ∞_{11}	42	90, 126, ∞_{11}	42, 75, ∞_{12}	98	140, 2, ∞_{12}
65, 146, ∞_{13}	1	66, 147, ∞_{13}	89, 140, ∞_{14}	14	103, 154, ∞_{14}
136, 160, ∞_{15}	66	31, 55, ∞_{15}	74, 130, ∞_{16}	105	8, 64, ∞_{16}
81, 144, ∞_{17}	86	167, 59, ∞_{17}	64, 112, ∞_{18}	51	115, 163, ∞_{18}
92, 155, ∞_{19}	162	83, 146, ∞_{19}	68, 149, ∞_{20}	107	4, 85, ∞_{20}
45, 141, ∞_{21}	142	16, 112, ∞_{21}	88, 162, ∞_{22}	141	58, 132, ∞_{22}
90, 167, ∞_{23}	170	89, 166, ∞_{23}	142, 151, ∞_{24}	159	130, 139, ∞_{24}
132, 147, ∞_{25}	135	96, 111, ∞_{25}	128, 134, ∞_{26}	23	151, 157, ∞_{26}
125, 170, ∞_{27}	108	62, 107, ∞_{27}	122, 123, ∞_{28}	146	97, 98, ∞_{28}
121, 124, ∞_{29}	156	106, 109, ∞_{29}	105, 150, ∞_{30}	138	72, 117, ∞_{30}
104, 169, ∞_{31}	166	99, 164, ∞_{31}	102, 168, ∞_{32}	147	78, 144, ∞_{32}
97, 163, ∞_{33}	158	84, 150, ∞_{33}	58, 100, ∞_{34}	111	169, 40, ∞_{34}
94, 158, ∞_{35}	150	73, 137, ∞_{35}	59, 159, ∞_{36}	63	122, 51, ∞_{36}
108, 129, ∞_{37}	41	149, 170, ∞_{37}	99, 135, ∞_{38}	24	123, 159, ∞_{38}
157, 166, ∞_{39}	20	6, 15, ∞_{39}	39, 138, ∞_{40}	22	61, 160, ∞_{40}
34, 127, ∞_{41}	16	50, 143, ∞_{41}	22, 119, ∞_{42}	8	30, 127, ∞_{42}
12, 110, ∞_{43}	35	47, 145, ∞_{43}	9, 91, ∞_{44}	2	11, 93, ∞_{44}

Table C (Cont.) (S, C, R) and A for (1, 2, 3)-frames of type $9^u(3\ell)^1$

C		R	A (1, 2, 3)-frame of type $9^{27}45^1$		
80, 156, 235		72, 142, 215			
76, 150, 230		67, 129, 194			
74, 145, 219		52, 102, 155			
62, 121, 180		48, 95, 139			
56, 112, 168		46, 92, 138			
64, 128, 192		43, 83, 126			
47, 91, 141		29, 58, 84			
23, 45, 70		39, 73, 107			
5, 9, 13		10, 21, 32			
36, 71, 109		63, 124, 185			
40, 77, 117		53, 105, 157			
22, 42, 65		19, 38, 57			
16, 30, 44		17, 33, 49			
34, 66, 101		75, 146, 223			
69, 136, 206		78, 154, 233			
Starter	Adder	Starter+ Adder			
58, 155, 200	112	170, 24, 69	59, 146, 201	102	161, 5, 60
60, 166, 214	44	104, 210, 15	63, 165, 223	2	65, 167, 225
68, 177, 242	41	109, 218, 40	87, 169, 220	109	196, 35, 86
89, 167, 233	155	1, 79, 145	90, 153, 222	28	118, 181, 7
78, 160, 218	11	89, 171, 229	10, 31, 41	91	101, 122, 132
8, 11, 17	234	242, 2, 8	6, 7, 12	105	111, 112, 117
1, 2, 4	210	211, 212, 214	26, 38, 51	223	6, 18, 31
24, 33, 75	149	173, 182, 224	14, 29, 231	56	70, 85, 44
73, 173, 241	95	168, 25, 93	92, 158, 207	45	137, 203, 9
82, 154, 226	9	91, 163, 235	95, 152, 212	127	222, 36, 96
19, 151, 171	26	45, 177, 197	18, 28, 35	238	13, 23, 30
15, 20, 234	226	241, 3, 217	49, 102, 232	82	131, 184, 71
39, 72, 186	22	61, 94, 208	46, 67, 103	128	174, 195, 231
37, 164, 187	199	236, 120, 143	32, 50, 170	115	147, 165, 42
57, 96, 215	17	74, 113, 232	55, 94, 130	200	12, 51, 87
83, 132, 163	96	179, 228, 16	53, 115, 178	61	114, 176, 239
52, 157, 199	185	237, 99, 141	113, 227, ∞_0	156	26, 140, ∞_0
143, 176, ∞_1	177	77, 110, ∞_1	148, 172, ∞_2	151	56, 80, ∞_2
137, 185, ∞_3	222	116, 164, ∞_3	133, 161, ∞_4	25	158, 186, ∞_4
110, 196, ∞_5	183	50, 136, ∞_5	140, 142, ∞_6	67	207, 209, ∞_6
134, 229, ∞_7	173	64, 159, ∞_7	138, 236, ∞_8	66	204, 59, ∞_8
131, 228, ∞_9	70	201, 55, ∞_9	129, 221, ∞_{10}	59	188, 37, ∞_{10}
183, 191, ∞_{11}	7	190, 198, ∞_{11}	195, 240, ∞_{12}	169	121, 166, ∞_{12}
203, 210, ∞_{13}	10	213, 220, ∞_{13}	205, 217, ∞_{14}	213	175, 187, ∞_{14}
181, 194, ∞_{15}	240	178, 191, ∞_{15}	126, 239, ∞_{16}	104	230, 100, ∞_{16}
122, 224, ∞_{17}	168	47, 149, ∞_{17}	118, 208, ∞_{18}	187	62, 152, ∞_{18}
114, 204, ∞_{19}	1	115, 205, ∞_{19}	107, 193, ∞_{20}	147	11, 97, ∞_{20}
105, 190, ∞_{21}	75	180, 22, ∞_{21}	98, 182, ∞_{22}	129	227, 68, ∞_{22}
100, 184, ∞_{23}	100	200, 41, ∞_{23}	97, 175, ∞_{24}	63	160, 238, ∞_{24}
127, 237, ∞_{25}	198	82, 192, ∞_{25}	120, 213, ∞_{26}	157	34, 127, ∞_{26}
124, 211, ∞_{27}	225	106, 193, ∞_{27}	104, 198, ∞_{28}	65	169, 20, ∞_{28}
3, 139, ∞_{29}	237	240, 133, ∞_{29}	88, 209, ∞_{30}	62	150, 28, ∞_{30}
85, 202, ∞_{31}	224	66, 183, ∞_{31}	43, 147, ∞_{32}	110	153, 14, ∞_{32}
119, 149, ∞_{33}	53	172, 202, ∞_{33}	106, 225, ∞_{34}	141	4, 123, ∞_{34}
159, 174, ∞_{35}	47	206, 221, ∞_{35}	99, 116, ∞_{36}	35	134, 151, ∞_{36}
93, 111, ∞_{37}	37	130, 148, ∞_{37}	86, 123, ∞_{38}	33	119, 156, ∞_{38}
84, 125, ∞_{39}	19	103, 144, ∞_{39}	79, 188, ∞_{40}	46	125, 234, ∞_{40}
61, 197, ∞_{41}	29	90, 226, ∞_{41}	48, 179, ∞_{42}	40	88, 219, ∞_{42}
25, 238, ∞_{43}	103	128, 98, ∞_{43}	21, 144, ∞_{44}	55	76, 199, ∞_{44}

Table D (S, C, R) and A for $(1, 2, 3)$ -frames of type $12^u(3\ell)^1$

C		R	A $(1, 2, 3)$ -frame of type $12^5 12^1$		
22, 39, 56 19, 33, 47 13, 21, 29 7, 11, 18		4, 6, 17 14, 27, 46 8, 12, 31 9, 16, 32			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
1, 2, 3 6, 9, 12 14, 43, ∞_0 24, 51, ∞_2 27, 49, ∞_4 32, 58, ∞_6 36, 54, ∞_8 38, 59, ∞_{10}	21 47 28 27 59 56 8 14	22, 23, 24 53, 56, 59 42, 11, ∞_0 51, 18, ∞_2 26, 48, ∞_4 28, 54, ∞_6 44, 2, ∞_8 52, 13, ∞_{10}	4, 16, 28 8, 17, 41 23, 44, ∞_1 26, 57, ∞_3 31, 53, ∞_5 34, 52, ∞_7 37, 46, ∞_9 42, 48, ∞_{11}	33 26 13 32 48 29 1 51	37, 49, 1 34, 43, 7 36, 57, ∞_1 58, 29, ∞_3 19, 41, ∞_5 3, 21, ∞_7 38, 47, ∞_9 33, 39, ∞_{11}
C		R	A $(1, 2, 3)$ -frame of type $12^{22} 18^1$		
82, 168, 257 79, 158, 243 76, 156, 236 71, 141, 211 68, 136, 207 51, 101, 157		81, 164, 250 74, 148, 225 47, 96, 145 57, 116, 178 26, 52, 78 36, 73, 113			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
73, 116, 163 81, 178, 224 126, 171, 217 99, 160, 251 122, 177, 233 118, 183, 255 100, 161, 219 103, 179, 244 1, 2, 3 111, 180, 261 14, 24, 32 10, 17, 23 5, 8, 12 21, 36, 139 18, 29, 41 37, 57, 78 33, 196, 256 28, 52, 83 39, 64, 89 50, 143, 205 47, 75, 104 54, 216, 247 125, 159, 193 85, 115, 189 55, 90, 204 105, 199, 234 65, 144, 239 128, 167, 215 108, 153, 250 69, 150, 235 123, 201, 254 92, 170, 223 120, 184, 248 46, 147, ∞_0 60, 225, ∞_2 70, 231, ∞_4 109, 145, ∞_6 135, 152, ∞_8 146, 164, ∞_{10} 188, 202, ∞_{12} 194, 227, ∞_{14} 213, 241, ∞_{16}	67 232 222 45 250 145 53 96 121 144 63 151 165 175 241 160 195 237 1 4 11 7 10 13 75 47 129 143 93 65 119 211 33 115 104 116 54 64 258 30	140, 183, 230 49, 146, 192 84, 129, 175 144, 205, 32 108, 163, 219 263, 64, 136 153, 214, 8 199, 11, 76 122, 123, 124 255, 60, 141 77, 87, 95 161, 168, 174 170, 173, 177 196, 211, 50 259, 6, 18 197, 217, 238 228, 127, 187 1, 25, 56 40, 65, 90 54, 147, 209 58, 86, 115 61, 223, 254 135, 169, 203 98, 128, 202 130, 165, 15 152, 246, 17 194, 9, 104 120, 159, 207 134, 179, 12 212, 29, 114 216, 30, 83 157, 235, 24 239, 39, 103 257, 94, ∞_0 93, 258, ∞_2 185, 82, ∞_4 213, 249, ∞_6 251, 4, ∞_8 200, 218, ∞_{10} 252, 2, ∞_{12} 188, 221, ∞_{14} 243, 7, ∞_{16}	74, 117, 209 84, 131, 240 98, 185, 260 121, 203, 262 87, 138, 192 119, 186, 259 102, 162, 238 4, 6, 9 107, 174, 246 112, 181, 263 13, 19, 27 7, 11, 16 26, 42, 58 20, 31, 43 15, 25, 34 35, 48, 142 30, 45, 62 40, 77, 140 38, 67, 86 49, 165, 195 80, 113, 228 53, 91, 197 93, 129, 237 59, 166, 206 133, 172, 245 96, 134, 226 61, 187, 229 114, 210, 252 72, 130, 214 124, 175, 258 94, 169, 221 97, 151, 208 106, 190, 253 56, 155, ∞_1 63, 182, ∞_3 95, 200, ∞_5 127, 148, ∞_7 137, 230, ∞_9 149, 173, ∞_{11} 191, 218, ∞_{13} 212, 232, ∞_{15} 222, 249, ∞_{17}	38 55 185 37 34 48 135 42 117 72 78 52 243 49 92 90 247 2 3 6 5 9 8 16 57 140 226 46 245 156 39 59 25 228 80 136 100 14 31 235 29 208	112, 155, 247 139, 186, 31 19, 106, 181 158, 240, 35 121, 172, 226 167, 234, 43 237, 33, 109 46, 48, 51 224, 27, 99 184, 253, 71 91, 97, 105 59, 63, 68 5, 21, 37 69, 80, 92 107, 117, 126 125, 138, 232 13, 28, 45 42, 79, 142 41, 70, 89 55, 171, 201 85, 118, 233 62, 100, 206 101, 137, 245 75, 182, 222 190, 229, 38 236, 10, 102 23, 149, 191 160, 256, 34 53, 111, 195 16, 67, 150 133, 208, 260 156, 210, 3 131, 215, 14 20, 119, ∞_1 143, 262, ∞_3 231, 72, ∞_5 227, 248, ∞_7 151, 244, ∞_9 180, 204, ∞_{11} 162, 189, ∞_{13} 241, 261, ∞_{15} 166, 193, ∞_{17}

Table D (Cont.) (S, C, R) and A for $(1, 2; 3)$ -frames of type $12^n(3\ell)^1$

C		R	A (1, 2, 3)-frame of type $12^{25}54^1$		
7, 12, 20		10, 21, 32			
66, 136, 209		19, 38, 57			
97, 195, 296		43, 90, 134			
92, 184, 276		94, 189, 284			
89, 177, 265		88, 173, 267			
86, 172, 258		91, 185, 282			
78, 160, 245		58, 113, 171			
74, 148, 228		73, 152, 231			
71, 147, 223		61, 122, 183			
64, 129, 191		65, 132, 202			
62, 126, 193		63, 128, 190			
59, 115, 174		67, 135, 203			
56, 109, 165		36, 70, 107			
47, 96, 145		16, 30, 44			
41, 87, 130		27, 53, 85			
39, 76, 116		69, 140, 214			
26, 48, 79		77, 154, 234			
17, 33, 49		81, 164, 253			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
104, 210, 255	198	2, 108, 153	105, 202, 268	218	23, 120, 186
38, 55, 61	38	76, 93, 99	34, 118, 121	261	295, 79, 82
29, 182, 248	182	211, 64, 130	23, 201, 211	16	39, 217, 227
10, 205, 247	293	3, 198, 240	5, 6, 146	105	110, 111, 251
3, 27, 285	4	7, 31, 289	1, 2, 4	297	298, 299, 1
53, 214, 266	235	288, 149, 201	51, 120, 132	209	260, 29, 41
18, 28, 298	98	116, 126, 96	13, 22, 65	165	178, 187, 230
11, 15, 19	207	218, 222, 226	9, 14, 16	26	35, 40, 42
8, 44, 67	138	146, 182, 205	37, 68, 286	29	66, 97, 15
32, 73, 212	244	276, 17, 156	30, 57, 240	288	18, 45, 228
24, 31, 52	211	235, 242, 263	21, 36, 297	65	86, 101, 62
46, 186, 215	223	269, 109, 138	45, 81, 114	199	244, 280, 13
43, 139, 222	290	33, 129, 212	42, 72, 99	194	236, 266, 293
40, 94, 112	193	233, 287, 5	63, 108, 204	73	136, 181, 277
60, 95, 159	112	172, 207, 271	58, 91, 151	48	106, 139, 199
88, 199, 234	153	241, 52, 87	82, 196, 244	252	34, 148, 196
84, 213, 270	135	219, 48, 105	83, 138, 216	156	239, 294, 72
77, 106, 179	245	22, 51, 124	70, 110, 173	136	206, 246, 9
69, 207, 246	101	170, 8, 47	103, 181, 229	91	194, 272, 20
102, 206, 290	257	59, 163, 247	101, 254, 267	14	115, 268, 281
93, 183, 227	10	103, 193, 237	90, 141, 260	120	210, 261, 80
171, 289, ∞_0	85	256, 74, ∞_0	122, 232, ∞_1	234	56, 166, ∞_1
85, 217, ∞_2	206	291, 123, ∞_2	153, 264, ∞_3	215	68, 179, ∞_3
154, 277, ∞_4	94	248, 71, ∞_4	117, 221, ∞_5	24	141, 245, ∞_5
164, 198, ∞_6	219	83, 117, ∞_6	168, 292, ∞_7	224	92, 216, ∞_7
131, 239, ∞_8	53	184, 292, ∞_8	158, 293, ∞_9	62	220, 55, ∞_9
163, 282, ∞_{10}	151	14, 133, ∞_{10}	162, 288, ∞_{11}	61	223, 49, ∞_{11}
134, 242, ∞_{12}	220	54, 162, ∞_{12}	140, 295, ∞_{13}	117	257, 112, ∞_{13}
149, 284, ∞_{14}	229	78, 213, ∞_{14}	188, 226, ∞_{15}	172	60, 98, ∞_{15}
143, 190, ∞_{16}	116	259, 6, ∞_{16}	144, 251, ∞_{17}	240	84, 191, ∞_{17}
152, 294, ∞_{18}	17	169, 11, ∞_{18}	273, 279, ∞_{19}	259	232, 238, ∞_{19}
252, 278, ∞_{20}	243	195, 221, ∞_{20}	180, 192, ∞_{21}	296	176, 188, ∞_{21}
135, 241, ∞_{22}	283	118, 224, ∞_{22}	156, 263, ∞_{23}	286	142, 249, ∞_{23}
157, 274, ∞_{24}	280	137, 254, ∞_{24}	220, 237, ∞_{25}	260	180, 197, ∞_{25}
167, 280, ∞_{26}	278	145, 258, ∞_{26}	127, 283, ∞_{27}	177	4, 160, ∞_{27}
137, 236, ∞_{28}	92	229, 28, ∞_{28}	189, 235, ∞_{29}	242	131, 177, ∞_{29}
155, 271, ∞_{30}	124	279, 95, ∞_{30}	133, 238, ∞_{31}	59	192, 297, ∞_{31}
128, 231, ∞_{32}	31	159, 262, ∞_{32}	161, 291, ∞_{33}	113	274, 104, ∞_{33}
166, 281, ∞_{34}	292	158, 273, ∞_{34}	169, 287, ∞_{35}	299	168, 286, ∞_{35}
123, 259, ∞_{36}	155	278, 114, ∞_{36}	124, 253, ∞_{37}	166	290, 119, ∞_{37}
142, 262, ∞_{38}	195	37, 157, ∞_{38}	170, 272, ∞_{39}	232	102, 204, ∞_{39}
178, 219, ∞_{40}	289	167, 208, ∞_{40}	176, 230, ∞_{41}	279	155, 209, ∞_{41}
35, 187, ∞_{42}	139	174, 26, ∞_{42}	107, 256, ∞_{43}	205	12, 161, ∞_{43}
249, 269, ∞_{44}	178	127, 147, ∞_{44}	218, 233, ∞_{45}	52	270, 285, ∞_{45}
208, 299, ∞_{46}	47	255, 46, ∞_{46}	197, 257, ∞_{47}	67	264, 24, ∞_{47}
194, 203, ∞_{48}	49	243, 252, ∞_{48}	113, 185, ∞_{49}	30	143, 215, ∞_{49}
111, 243, ∞_{50}	40	151, 283, ∞_{50}	98, 119, ∞_{51}	46	144, 165, ∞_{51}
80, 224, ∞_{52}	41	121, 265, ∞_{52}	54, 261, ∞_{53}	35	89, 296, ∞_{53}

Table E (S, C, R) and A for a $(1, 2; 3)$ -frame of type $15^9 21^1$

C		R	A $(1, 2, 3)$ -frame of type $15^9 21^1$		
7, 14, 24		4, 6, 11			
20, 37, 57		13, 23, 39			
29, 51, 79		25, 48, 68			
42, 76, 116		40, 74, 111			
35, 67, 102		49, 84, 125			
15, 26, 34		38, 69, 100			
46, 86, 129		19, 33, 47			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
38, 59, 124	8	46, 67, 132	39, 78, 91	13	52, 91, 104
55, 87, 133	7	62, 94, 5	58, 83, 131	12	70, 95, 8
11, 23, 44	20	31, 43, 64	41, 64, 70	15	56, 79, 85
19, 104, 110	10	29, 114, 120	16, 65, 94	37	53, 102, 131
50, 89, 127	23	73, 112, 15	32, 56, 98	65	97, 121, 28
6, 25, 130	26	32, 51, 21	5, 10, 92	50	55, 60, 7
4, 8, 101	22	26, 30, 123	1, 120, 121	16	17, 1, 2
40, 73, 114	2	42, 75, 116	31, 95, 107	6	37, 101, 113
21, 47, 112	3	24, 50, 115	17, 30, 77	5	22, 35, 82
13, 43, 123	1	14, 44, 124	2, 134, ∞_0	120	122, 119, ∞_0
3, 80, ∞_1	75	78, 20, ∞_1	12, 132, ∞_2	86	98, 83, ∞_2
28, 75, ∞_3	52	80, 127, ∞_3	33, 84, ∞_4	25	58, 109, ∞_4
48, 103, ∞_5	44	92, 12, ∞_5	49, 100, ∞_6	69	118, 34, ∞_6
52, 119, ∞_7	77	129, 61, ∞_7	60, 68, ∞_8	28	88, 96, ∞_8
61, 85, ∞_9	4	65, 89, ∞_9	93, 97, ∞_{10}	41	134, 3, ∞_{10}
96, 118, ∞_{11}	110	71, 93, ∞_{11}	105, 106, ∞_{12}	116	86, 87, ∞_{12}
109, 111, ∞_{13}	131	105, 107, ∞_{13}	82, 128, ∞_{14}	48	130, 41, ∞_{14}
71, 74, ∞_{15}	32	103, 106, ∞_{15}	69, 125, ∞_{16}	76	10, 66, ∞_{16}
66, 122, ∞_{17}	11	77, 133, ∞_{17}	62, 115, ∞_{18}	130	57, 110, ∞_{18}
53, 113, ∞_{19}	98	16, 76, ∞_{19}	22, 88, ∞_{20}	106	128, 59, ∞_{20}

Table F (S, C, R) and A for $(1, 2; 3)$ -frames of type $18^u(3\ell)^1$

C		R	A $(1, 2, 3)$ -frame of type $18^5 18^1$		
7, 11, 18		22, 39, 56			
9, 16, 32		28, 57, 86			
23, 49, 87		24, 52, 83			
37, 59, 81		14, 27, 46			
19, 33, 47		4, 6, 17			
13, 21, 29		8, 12, 31			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
27, 63, 84	9	36, 72, 3	14, 26, 53	18	32, 44, 71
8, 17, 51	26	34, 43, 77	1, 2, 3	46	47, 48, 49
4, 22, 28	59	63, 81, 87	6, 12, 48	61	67, 73, 19
24, 73, ∞_0	38	62, 21, ∞_0	31, 69, ∞_1	22	53, 1, ∞_1
34, 67, ∞_2	17	51, 84, ∞_2	36, 77, ∞_3	87	33, 74, ∞_3
39, 78, ∞_4	88	37, 76, ∞_4	42, 79, ∞_5	24	66, 13, ∞_5
43, 86, ∞_6	11	54, 7, ∞_6	46, 88, ∞_7	43	89, 41, ∞_7
52, 89, ∞_8	12	64, 11, ∞_8	54, 72, ∞_9	34	88, 16, ∞_9
56, 83, ∞_{10}	36	2, 29, ∞_{10}	57, 66, ∞_{11}	2	59, 68, ∞_{11}
58, 61, ∞_{12}	21	79, 82, ∞_{12}	64, 76, ∞_{13}	52	26, 38, ∞_{13}
71, 74, ∞_{14}	77	58, 61, ∞_{14}	41, 62, ∞_{15}	37	78, 9, ∞_{15}
44, 68, ∞_{16}	64	18, 42, ∞_{16}	38, 82, ∞_{17}	31	69, 23, ∞_{17}

Table F (Cont.) (S,C,R) and A for (1,2,3)-frames of type $18^u(3\ell)^1$

C		R	A (1,2,3)-frame of type $18^7 18^1$		
10, 15, 20 12, 29, 46 23, 43, 69 30, 61, 92 32, 64, 93 40, 80, 120		33, 71, 109 36, 73, 110 19, 39, 62 18, 37, 59 25, 47, 72 31, 57, 86			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
33, 66, 102 27, 81, 89 39, 73, 121 53, 78, 110 47, 86, 125 44, 62, 109 4, 6, 16 9, 13, 22 19, 25, 52 36, 88, ∞_0 41, 57, ∞_2 59, 104, ∞_4 72, 83, ∞_6 76, 117, ∞_8 100, 116, ∞_{10} 111, 115, ∞_{12} 54, 107, ∞_{14} 68, 87, ∞_{16}	1 11 2 15 4 34 16 52 97 51 109 76 41 39 86 96 99 31	34, 67, 103 38, 92, 100 41, 75, 123 68, 93, 125 51, 90, 3 78, 96, 17 20, 22, 32 61, 65, 74 116, 122, 23 87, 13, ∞_0 24, 40, ∞_2 9, 54, ∞_4 113, 124, ∞_6 115, 30, ∞_8 60, 76, ∞_{10} 81, 85, ∞_{12} 27, 80, ∞_{14} 99, 118, ∞_{16}	31, 67, 82 55, 85, 108 38, 96, 114 50, 95, 122 45, 58, 113 1, 2, 3 5, 8, 17 18, 24, 48 26, 34, 101 37, 97, ∞_1 51, 94, ∞_3 60, 75, ∞_5 74, 118, ∞_7 99, 123, ∞_9 103, 106, ∞_{11} 11, 71, ∞_{13} 65, 124, ∞_{15} 79, 90, ∞_{17}	12 3 6 19 8 9 47 83 108 58 38 22 54 53 24 37 106 27	43, 79, 94 58, 88, 111 44, 102, 120 69, 114, 15 53, 66, 121 10, 11, 12 52, 55, 64 101, 107, 5 8, 16, 83 95, 29, ∞_1 89, 6, ∞_3 82, 97, ∞_5 2, 46, ∞_7 26, 50, ∞_9 1, 4, ∞_{11} 48, 108, ∞_{13} 45, 104, ∞_{15} 106, 117, ∞_{17}
C		R	A (1,2,3)-frame of type $18^{10} 18^1$		
58, 113, 174 55, 111, 176 46, 89, 135 44, 87, 133 39, 77, 115 36, 68, 103		28, 62, 99 24, 47, 73 26, 54, 88 19, 38, 63 17, 34, 48 25, 53, 78			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
7, 11, 16 14, 62, 86 4, 6, 163 26, 101, 137 17, 28, 41 64, 127, 149 33, 49, 107 22, 34, 48 81, 148, 177 37, 116, 143 51, 73, 129 53, 106, 172 79, 112, 144 57, 99, 156 65, 109, 168 21, 29, 98 71, 152, 173 75, 122, 169 42, 158, ∞_0 66, 154, ∞_2 72, 126, ∞_4 84, 141, ∞_6 88, 93, ∞_8 96, 178, ∞_{10} 102, 157, ∞_{12} 121, 136, ∞_{14} 132, 139, ∞_{16}	155 43 2 7 108 147 142 49 54 12 112 31 153 139 9 16 5 164 131 117 89 111 79 149 144 58 137	162, 166, 171 57, 105, 129 6, 8, 165 33, 108, 144 125, 136, 149 31, 94, 116 175, 11, 69 71, 83, 97 135, 22, 51 49, 128, 155 163, 5, 61 84, 137, 23 52, 85, 117 16, 58, 115 74, 118, 177 37, 45, 114 76, 157, 178 59, 106, 153 173, 109, ∞_0 3, 91, ∞_2 161, 35, ∞_4 15, 72, ∞_6 167, 172, ∞_8 65, 147, ∞_{10} 66, 121, ∞_{12} 179, 14, ∞_{14} 89, 96, ∞_{16}	13, 19, 25 1, 2, 3 24, 43, 59 15, 23, 32 18, 31, 125 27, 45, 63 35, 108, 147 67, 146, 175 82, 134, 167 38, 104, 131 52, 114, 145 78, 117, 162 54, 91, 142 61, 124, 165 76, 118, 159 8, 56, 105 74, 128, 179 5, 9, 12 47, 92, ∞_1 69, 151, ∞_3 83, 94, ∞_5 85, 153, ∞_7 95, 166, ∞_9 97, 155, ∞_{11} 119, 171, ∞_{13} 123, 138, ∞_{15} 161, 164, ∞_{17}	126 41 109 161 123 48 51 46 125 171 122 64 47 158 28 156 3 114 56 65 75 159 106 1 116 124 143	139, 145, 151 42, 43, 44 133, 152, 168 176, 4, 13 141, 154, 68 75, 93, 111 86, 159, 18 113, 12, 41 27, 79, 112 29, 95, 122 174, 56, 87 142, 1, 46 101, 138, 9 39, 102, 143 104, 146, 7 164, 32, 81 77, 131, 2 119, 123, 126 103, 148, ∞_1 134, 36, ∞_3 158, 169, ∞_5 64, 132, ∞_7 21, 92, ∞_9 98, 156, ∞_{11} 55, 107, ∞_{13} 67, 82, ∞_{15} 124, 127, ∞_{17}

Table F (Cont.) (S,C,R) and A for (1,2,3)-frames of type $18^u(3\ell)^1$

C		R	A (1,2,3)-frame of type $18^{11}18^1$		
64, 123, 182		31, 59, 93			
62, 126, 190		27, 56, 85			
60, 113, 169		24, 47, 70			
45, 94, 146		19, 36, 50			
42, 89, 136		10, 23, 30			
38, 78, 118		7, 12, 17			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
82, 139, 193	87	169, 28, 82	79, 142, 195	19	98, 161, 16
74, 122, 183	64	138, 186, 49	75, 131, 189	190	67, 123, 181
76, 133, 184	116	192, 51, 102	1, 2, 3	78	79, 80, 81
4, 6, 10	59	63, 65, 69	9, 16, 102	97	106, 113, 1
7, 15, 27	153	160, 168, 180	5, 8, 14	1	6, 9, 15
12, 37, 46	160	172, 197, 8	13, 25, 40	105	118, 130, 145
18, 28, 54	146	164, 174, 2	26, 152, 178	98	124, 52, 78
24, 48, 117	24	48, 72, 141	19, 34, 50	123	142, 157, 173
20, 115, 140	129	149, 46, 71	30, 95, 149	53	83, 148, 4
29, 47, 68	47	76, 94, 115	41, 109, 144	50	91, 159, 194
31, 105, 129	42	73, 147, 171	21, 39, 53	80	101, 119, 133
71, 101, 168	25	96, 126, 193	70, 98, 174	113	183, 13, 89
69, 106, 180	56	125, 162, 38	32, 124, 151	28	60, 152, 179
36, 103, 138	134	170, 39, 74	81, 111, 171	85	166, 196, 58
51, 92, 167	167	20, 61, 136	49, 91, 175	60	109, 151, 37
87, 158, 194	195	84, 155, 191	93, 130, 162	173	68, 105, 137
59, 119, 192	3	62, 122, 195	57, 127, 172	51	108, 178, 25
52, 90, 128	111	163, 3, 41	61, 100, 191	124	185, 26, 117
86, 147, 188	96	182, 45, 86	73, 125, 173	115	188, 42, 90
65, 114, 157	32	97, 146, 189	63, 108, 186	76	139, 184, 64
83, 145, 196	45	128, 190, 43	84, 134, 197	93	177, 29, 92
17, 67, ∞_0	37	54, 104, ∞_0	23, 104, ∞_1	52	75, 156, ∞_1
35, 43, ∞_2	92	127, 135, ∞_2	56, 181, ∞_3	31	87, 14, ∞_3
58, 170, ∞_4	49	107, 21, ∞_4	72, 153, ∞_5	179	53, 134, ∞_5
80, 163, ∞_6	40	120, 5, ∞_6	85, 156, ∞_7	82	167, 40, ∞_7
96, 112, ∞_8	120	18, 34, ∞_8	97, 116, ∞_9	15	112, 131, ∞_9
107, 150, ∞_{10}	148	57, 100, ∞_{10}	120, 141, ∞_{11}	9	129, 150, ∞_{11}
135, 148, ∞_{12}	166	103, 116, ∞_{12}	137, 179, ∞_{13}	172	111, 153, ∞_{13}
155, 159, ∞_{14}	183	140, 144, ∞_{14}	160, 177, ∞_{15}	196	158, 175, ∞_{15}
161, 164, ∞_{16}	69	32, 35, ∞_{16}	166, 185, ∞_{17}	127	95, 114, ∞_{17}

Table F (Cont.) (S,C,R) and A for (1,2;3)-frames of type $18^u(3\ell)^1$

C		R	A (1,2,3)-frame of type $18^{13}18^1$		
76, 158, 228		44, 93, 139			
72, 146, 217		33, 67, 101			
68, 132, 196		37, 75, 116			
57, 118, 179		40, 81, 125			
51, 109, 164		19, 38, 63			
48, 95, 142		27, 55, 80			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
36, 55, 79	18	54, 73, 97	47, 166, 193	10	57, 176, 203
45, 148, 178	50	95, 198, 228	44, 73, 123	101	145, 174, 224
93, 159, 219	233	92, 158, 218	80, 170, 191	67	147, 3, 24
74, 102, 194	90	164, 192, 50	97, 129, 197	15	112, 144, 212
92, 127, 202	115	207, 8, 83	5, 8, 12	192	197, 200, 204
56, 140, 188	38	94, 178, 226	50, 81, 201	133	183, 214, 100
113, 150, 187	22	135, 172, 209	106, 144, 186	138	10, 48, 90
18, 29, 40	81	99, 110, 121	64, 131, 203	74	138, 205, 43
63, 149, 200	110	173, 25, 76	107, 147, 222	161	34, 74, 149
71, 111, 213	183	20, 60, 162	37, 134, 214	31	68, 165, 11
67, 136, 185	4	71, 140, 189	66, 108, 153	53	119, 161, 206
105, 161, 215	96	201, 23, 77	103, 180, 231	163	32, 109, 160
94, 125, 206	126	220, 17, 98	82, 128, 209	193	41, 87, 168
75, 151, 210	28	103, 179, 4	99, 168, 224	12	111, 180, 2
87, 145, 218	72	159, 217, 56	62, 124, 220	86	148, 210, 72
84, 167, 229	180	30, 113, 175	83, 138, 192	103	186, 7, 61
98, 165, 225	200	64, 131, 191	96, 155, 232	61	157, 216, 59
100, 184, 216	152	18, 102, 134	90, 160, 226	189	45, 115, 181
89, 152, 223	77	166, 229, 66	1, 2, 3	125	126, 127, 128
4, 6, 9	80	84, 86, 89	70, 115, 211	37	107, 152, 14
7, 11, 16	42	49, 53, 58	10, 17, 25	205	215, 222, 230
14, 20, 28	1	15, 21, 29	15, 21, 30	172	187, 193, 202
101, 154, 227	203	70, 123, 196	19, 31, 41	136	155, 167, 177
22, 32, 46	100	122, 132, 146	23, 58, 163	113	136, 171, 42
24, 42, 54	64	88, 106, 118	86, 173, 230	146	232, 85, 142
38, 110, 139	232	36, 108, 137	27, 43, 60	196	223, 5, 22
33, 49, 69	121	154, 170, 190	34, 120, 183	165	199, 51, 114
35, 85, ∞_0	150	185, 1, ∞_0	53, 141, ∞_1	9	62, 150, ∞_1
59, 172, ∞_2	191	16, 129, ∞_2	61, 190, ∞_3	21	82, 211, ∞_3
77, 176, ∞_4	43	120, 219, ∞_4	88, 121, ∞_5	106	194, 227, ∞_5
112, 205, ∞_6	153	31, 124, ∞_6	114, 135, ∞_7	49	163, 184, ∞_7
116, 133, ∞_8	197	79, 96, ∞_8	119, 162, ∞_9	69	188, 231, ∞_9
122, 233, ∞_{10}	29	151, 28, ∞_{10}	126, 174, ∞_{11}	107	233, 47, ∞_{11}
137, 157, ∞_{12}	230	133, 153, ∞_{12}	171, 207, ∞_{13}	168	105, 141, ∞_{13}
175, 198, ∞_{14}	105	46, 69, ∞_{14}	177, 204, ∞_{15}	36	213, 6, ∞_{15}
181, 199, ∞_{16}	44	225, 9, ∞_{16}	189, 212, ∞_{17}	57	12, 35, ∞_{17}

Table F (Cont.) (S,C,R) and A for (1,2;3)-frames of type $18^u(3\ell)^1$

C		R	A (1,2,3)-frame of type $18^{14}18^1$		
8, 15, 25 18, 35, 55 46, 93, 143 67, 135, 206 81, 164, 247 59, 114, 172		29, 58, 87 36, 71, 109 74, 141, 217 78, 155, 241 22, 44, 69 51, 101, 160			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
1, 2, 3	101	102, 103, 104	4, 6, 9	222	226, 228, 231
5, 10, 13	157	162, 167, 170	7, 11, 17	251	6, 10, 16
12, 16, 23	15	27, 31, 38	19, 27, 38	175	194, 202, 213
20, 26, 39	237	5, 11, 24	21, 30, 43	9	30, 39, 52
22, 31, 47	99	121, 130, 146	24, 36, 48	115	139, 151, 163
29, 44, 60	217	246, 9, 25	32, 50, 71	100	132, 150, 171
33, 65, 194	183	216, 248, 125	34, 128, 148	186	220, 62, 82
37, 58, 82	163	200, 221, 245	40, 63, 89	48	88, 111, 137
41, 142, 190	209	250, 99, 147	45, 72, 102	120	165, 192, 222
49, 79, 195	216	13, 43, 159	52, 149, 214	241	41, 138, 203
53, 155, 189	180	233, 83, 117	85, 151, 184	164	249, 63, 96
87, 119, 207	118	205, 237, 73	103, 139, 230	86	189, 225, 64
110, 141, 221	43	153, 184, 12	54, 88, 175	36	90, 124, 211
61, 133, 220	198	7, 79, 166	62, 99, 204	116	178, 215, 68
64, 167, 202	178	242, 93, 128	97, 137, 225	147	244, 32, 120
66, 146, 187	68	134, 214, 3	69, 173, 213	128	197, 49, 89
73, 116, 208	63	136, 179, 19	106, 200, 243	69	175, 17, 60
113, 157, 235	78	191, 235, 61	74, 152, 241	12	86, 164, 1
75, 121, 222	102	177, 223, 72	115, 161, 215	172	35, 81, 135
122, 197, 242		2, 77, 122	125, 166, 217	81	206, 247, 46
76, 124, 205	34	110, 158, 239	77, 159, 211	242	67, 149, 201
80, 132, 228	205	33, 85, 181	118, 169, 248	191	57, 108, 187
120, 177, 226	123	243, 48, 97	83, 136, 191	235	66, 119, 174
86, 145, 245	87	173, 232, 80	90, 150, 223	79	169, 229, 50
91, 176, 236	220	59, 144, 204	111, 185, 239	107	218, 40, 94
92, 153, 249	37	129, 190, 34	95, 170, 232	57	152, 227, 37
96, 160, 237	80	176, 240, 65	108, 171, 233	199	55, 118, 180
109, 181, 244	7	116, 188, 251	100, 165, 234	33	133, 198, 15
101, 180, 251	5	106, 185, 4	104, 178, 246	82	186, 8, 76
105, 186, 250	22	127, 208, 20	107, 174, 240	38	145, 212, 26
51, 227, ∞_0	148	199, 123, ∞_0	57, 219, ∞_1	240	45, 207, ∞_1
68, 94, ∞_2	125	193, 219, ∞_2	78, 231, ∞_3	152	230, 131, ∞_3
117, 156, ∞_4	119	236, 23, ∞_4	123, 192, ∞_5	243	114, 183, ∞_5
127, 209, ∞_6	200	75, 157, ∞_6	129, 147, ∞_7	218	95, 113, ∞_7
130, 183, ∞_8	26	156, 209, ∞_8	131, 158, ∞_9	236	115, 142, ∞_9
134, 229, ∞_{10}	171	53, 148, ∞_{10}	138, 199, ∞_{11}	214	100, 161, ∞_{11}
144, 188, ∞_{12}	155	47, 91, ∞_{12}	162, 198, ∞_{13}	72	234, 18, ∞_{13}
163, 201, ∞_{14}	194	105, 143, ∞_{14}	179, 212, ∞_{15}	94	21, 54, ∞_{15}
193, 216, ∞_{16}	231	172, 195, ∞_{16}	203, 218, ∞_{17}	141	92, 107, ∞_{17}

Table F (Cont.) (S,C,R) and A for (1,2;3)-frames of type $18^u(3\ell)^1$

C		R	A (1,2,3)-frame of type $18^{14}27^1$		
10, 21, 32		19, 38, 57			
24, 50, 76		31, 63, 104			
40, 80, 120		48, 97, 149			
60, 121, 185		67, 135, 206			
75, 152, 232		79, 161, 243			
81, 164, 247		45, 88, 134			
53, 106, 159		64, 128, 195			
29, 58, 87		7, 12, 20			
59, 114, 172		77, 156, 235			
Starter	Adder	Starter+ Adder	Starter	Adder	Starter + Adder
118, 161, 233	160	26, 69, 141	65, 189, 239	18	83, 207, 5
66, 142, 214	23	89, 165, 237	99, 188, 223	16	115, 204, 239
108, 198, 243	10	118, 208, 1	117, 166, 217	19	136, 185, 236
67, 103, 190	26	93, 129, 216	69, 115, 222	27	96, 142, 249
72, 180, 221	35	107, 215, 4	73, 192, 228	22	95, 214, 250
113, 176, 251	25	138, 201, 24	74, 178, 229	31	105, 209, 8
91, 151, 236	32	123, 183, 16	109, 175, 246	24	133, 199, 18
111, 165, 213	60	171, 225, 21	97, 157, 216	122	219, 27, 86
92, 146, 203	71	163, 217, 22	94, 153, 230	45	139, 198, 23
95, 183, 244	49	144, 232, 41	96, 158, 227	36	132, 194, 11
107, 173, 249	116	223, 37, 113	100, 162, 235	69	169, 231, 52
102, 167, 248	95	197, 10, 91	104, 179, 242	43	147, 222, 33
105, 174, 241	128	233, 50, 117	1, 2, 3	149	150, 151, 152
13, 20, 26	48	61, 68, 74	7, 11, 19	167	174, 178, 186
5, 8, 12	73	78, 81, 85	4, 6, 9	105	109, 111, 114
15, 46, 138	215	230, 9, 101	23, 41, 61	96	119, 137, 157
22, 38, 54	204	226, 242, 6	18, 27, 36	152	170, 179, 188
16, 141, 234	176	192, 65, 158	25, 37, 47	230	3, 15, 25
39, 63, 204	8	47, 71, 212	35, 62, 83	4	39, 66, 87
34, 57, 78	2	36, 59, 80	33, 77, 163	13	46, 90, 176
43, 68, 93	134	177, 202, 227	49, 139, 207	6	55, 145, 213
48, 122, 156	3	51, 125, 159	45, 110, 201	17	62, 127, 218
44, 71, 101	5	49, 76, 106	51, 160, 193	7	58, 167, 200
90, 137, 237	9	99, 146, 246	89, 144, 240	11	100, 155, 251
88, 123, 245	20	108, 143, 13	52, 145, 184	21	73, 166, 205
116, 147, 225	44	160, 191, 17	30, 197, ∞_0	157	187, 102, ∞_0
31, 64, ∞_1	117	148, 181, ∞_1	55, 215, ∞_2	66	121, 29, ∞_2
79, 199, ∞_3	217	44, 164, ∞_3	85, 124, ∞_4	220	53, 92, ∞_4
86, 191, ∞_5	30	116, 221, ∞_5	119, 149, ∞_6	227	94, 124, ∞_6
128, 148, ∞_7	92	220, 240, ∞_7	150, 187, ∞_8	61	211, 248, ∞_8
155, 202, ∞_9	90	245, 40, ∞_9	169, 206, ∞_{10}	118	35, 72, ∞_{10}
171, 186, ∞_{11}	58	229, 244, ∞_{11}	177, 200, ∞_{12}	205	130, 153, ∞_{12}
194, 211, ∞_{13}	101	43, 60, ∞_{13}	195, 219, ∞_{14}	87	30, 54, ∞_{14}
205, 220, ∞_{15}	222	175, 190, ∞_{15}	209, 226, ∞_{16}	146	103, 120, ∞_{16}
17, 135, ∞_{17}	93	110, 228, ∞_{17}	82, 181, ∞_{18}	202	32, 131, ∞_{18}
125, 170, ∞_{19}	64	189, 234, ∞_{19}	127, 218, ∞_{20}	207	82, 173, ∞_{20}
129, 231, ∞_{21}	55	184, 34, ∞_{21}	130, 136, ∞_{22}	111	241, 247, ∞_{22}
131, 212, ∞_{23}	243	122, 203, ∞_{23}	132, 250, ∞_{24}	195	75, 193, ∞_{24}
133, 143, ∞_{25}	29	162, 172, ∞_{25}	134, 208, ∞_{26}	46	180, 2, ∞_{26}

Table G (S, C, R) and A for a (1, 2, 3)-frame of type $27^5 27^1$

C		R	A (1, 2, 3)-frame of type $27^5 27^1$		
42, 86, 133		34, 63, 101			
38, 72, 109		41, 78, 124			
36, 58, 104		37, 66, 113			
28, 54, 92		26, 48, 79			
24, 52, 83		23, 49, 81			
22, 39, 56		19, 33, 47			
14, 27, 46		13, 21, 29			
9, 16, 32		8, 12, 31			
7, 11, 18		4, 6, 17			
Starter	Adder	Starter+ Adder			
21, 82, 94	22	43, 104, 116	19, 37, 43	9	28, 46, 52
8, 17, 29	59	67, 76, 88	34, 67, 103	19	53, 86, 122
26, 89, 128	18	44, 107, 11	23, 77, 101	16	39, 93, 117
1, 2, 3	56	57, 58, 59	4, 13, 31	58	62, 71, 89
6, 12, 48	86	92, 98, 134	76, 134, ∞_0	8	84, 7, ∞_0
73, 114, ∞_1	14	87, 128, ∞_1	74, 127, ∞_2	17	91, 9, ∞_2
71, 122, ∞_3	132	68, 119, ∞_3	68, 124, ∞_4	29	97, 18, ∞_4
59, 98, ∞_5	73	132, 36, ∞_5	61, 123, ∞_6	13	74, 1, ∞_6
64, 113, ∞_7	38	102, 16, ∞_7	62, 119, ∞_8	127	54, 111, ∞_8
53, 96, ∞_9	53	106, 14, ∞_9	49, 97, ∞_{10}	24	73, 121, ∞_{10}
47, 88, ∞_{11}	49	96, 2, ∞_{11}	81, 129, ∞_{12}	33	114, 27, ∞_{12}
84, 126, ∞_{13}	47	131, 38, ∞_{13}	91, 112, ∞_{14}	21	112, 133, ∞_{14}
99, 102, ∞_{15}	27	126, 129, ∞_{15}	108, 111, ∞_{16}	96	69, 72, ∞_{16}
79, 106, ∞_{17}	3	82, 109, ∞_{17}	78, 121, ∞_{18}	113	56, 99, ∞_{18}
69, 118, ∞_{19}	39	108, 22, ∞_{19}	66, 117, ∞_{20}	101	32, 83, ∞_{20}
63, 132, ∞_{21}	64	127, 61, ∞_{21}	57, 131, ∞_{22}	81	3, 77, ∞_{22}
51, 107, ∞_{23}	52	103, 24, ∞_{23}	44, 116, ∞_{24}	7	51, 123, ∞_{24}
41, 93, ∞_{25}	1	42, 94, ∞_{25}	33, 87, ∞_{26}	31	64, 118, ∞_{26}

Table H Starter blocks and adders for (3, 2)-DRGDDs of type 9^u

u	Starter	Adder	Starter	Adder	Starter	Adder
4	0, 1, 2	0	3, 5, 10	1	4, 8, 12	4
	6, 17, ∞_1	7	7, 20, ∞_2	12	9, 19, ∞_3	6
	11, 21, ∞_4	9	13, 26, ∞_5	10	14, 25, ∞_6	20
	15, 22, ∞_7	22	16, 24, ∞_8	25	18, 23, ∞_9	3
5	0, 1, 2	0	3, 5, 8	1	4, 7, 13	3
	6, 11, 20	2	9, 16, 27	14	10, 23, 29	4
	12, 25, ∞_1	9	14, 28, ∞_2	11	15, 30, ∞_3	5
	17, 32, ∞_4	15	18, 35, ∞_5	13	19, 26, ∞_6	34
	21, 31, ∞_7	33	22, 33, ∞_8	29	24, 34, ∞_9	31
6	16, 30, 43	0	14, 33, 41	1	12, 23, 44	2
	11, 19, 28	7	0, 1, 2	3	3, 5, 9	4
	4, 7, 10	17	6, 13, 20	25	8, 27, 31	9
	15, 32, ∞_1	32	17, 39, ∞_2	16	18, 34, ∞_3	19
	21, 42, ∞_4	23	22, 38, ∞_5	35	24, 36, ∞_6	5
25, 37, ∞_7	14	26, 35, ∞_8	42	29, 40, ∞_9	27	
7	21, 36, 52	0	19, 32, 53	1	18, 35, 46	4
	17, 30, 49	2	0, 1, 2	3	3, 5, 8	5
	4, 7, 11	7	6, 10, 15	19	9, 16, 24	32
	12, 20, 39	43	13, 33, 42	11	14, 37, 47	23
	22, 38, ∞_1	8	23, 48, ∞_2	46	25, 51, ∞_3	41
26, 40, ∞_4	9	27, 44, ∞_5	53	28, 50, ∞_6	49	
29, 43, ∞_7	18	31, 41, ∞_8	40	34, 45, ∞_9	51	
8	19, 38, 60	0	18, 47, 58	3	17, 30, 56	1
	16, 27, 54	8	26, 43, 59	4	25, 45, 61	7
	24, 39, 62	2	22, 40, 55	11	0, 1, 2	6
	3, 5, 8	9	4, 7, 12	16	6, 10, 14	39
	9, 15, 21	33	11, 29, 42	14	13, 23, 52	21
	20, 51, ∞_1	52	28, 48, ∞_2	51	31, 57, ∞_3	43
	32, 41, ∞_4	26	33, 50, ∞_5	59	34, 53, ∞_6	25
35, 44, ∞_7	41	36, 46, ∞_8	19	37, 49, ∞_9	53	

Table H (Cont.) Starter blocks and adders for (3,2)-DRGDDs of type 9^u

u	Starter	Adder	Starter	Adder	Starter	Adder	
9	19, 54, 66	0	17, 60, 71	1	14, 36, 56	2	
	13, 23, 33	4	32, 46, 58	7	31, 45, 70	3	
	21, 49, 62	8	20, 35, 65	6	30, 51, 68	12	
	28, 47, 64	5	26, 48, 69	14	24, 43, 61	21	
	0, 1, 2	22	3, 5, 8	27	4, 7, 11	39	
	6, 10, 15	71	9, 42, 55	42	12, 27, 50	66	
	16, 39, ∞_1	40	18, 59, ∞_2	41	22, 67, ∞_3	65	
	25, 53, ∞_4	50	29, 38, ∞_5	38	34, 40, ∞_6	15	
	37, 44, ∞_7	48	41, 52, ∞_8	67	57, 63, ∞_9	11	
	10	31, 44, 72	0	29, 52, 66	1	22, 47, 61	2
18, 42, 67		3	35, 51, 68	5	26, 55, 79	6	
24, 41, 71		9	23, 58, 74	4	34, 54, 73	14	
33, 53, 76		13	30, 56, 78	8	28, 49, 75	26	
0, 1, 2		10	3, 5, 8	20	4, 7, 11	48	
6, 10, 16		31	9, 14, 20	51	12, 19, 27	71	
13, 25, 57		63	15, 36, 46	64	17, 48, 63	34	
21, 59, ∞_1		22	32, 43, ∞_2	52	37, 50, ∞_3	66	
38, 60, ∞_4		79	39, 80, ∞_5	35	40, 69, ∞_6	54	
45, 64, ∞_7		32	62, 70, ∞_8	37	65, 77, ∞_9	73	
14		22, 32, 44	0	21, 37, 64	2	20, 81, 92	1
		19, 93, 101	5	49, 63, 109	4	40, 58, 104	3
		39, 55, 72	7	29, 65, 85	6	53, 89, 107	10
	47, 69, 88	8	31, 75, 106	9	30, 71, 90	12	
	54, 77, 102	18	36, 56, 103	13	34, 74, 116	11	
	33, 57, 80	17	52, 86, 115	28	43, 87, 112	14	
	42, 70, 108	16	41, 68, 96	32	50, 83, 114	59	
	48, 78, 110	99	46, 84, 113	24	45, 79, 111	43	
	0, 1, 2	103	3, 5, 8	73	4, 7, 11	83	
	6, 12, 99	35	9, 13, 18	20	10, 16, 27	38	
	14, 28, 35	116	15, 24, 73	95	17, 38, 97	51	
	23, 91, ∞_1	41	25, 62, ∞_2	50	26, 98, ∞_3	33	
	51, 66, ∞_4	67	59, 67, ∞_5	86	60, 100, ∞_6	69	
	61, 76, ∞_7	60	82, 94, ∞_8	29	95, 105, ∞_9	30	
	20	36, 125, 148	42	6, 9, 17	144	67, 117, 163	90
		33, 49, 133	95	81, 114, 166	77	77, 124, 165	64
		48, 103, 159	166	82, 111, 145	36	19, 70, 85	133
71, 92, 137		85	2, 4, 5	103	29, 80, 138	146	
14, 23, 83		102	27, 97, 129	72	7, 18, 154	148	
50, 89, 142		169	73, 102, 136	87	45, 104, 132	39	
64, 107, 150		22	35, 53, 127	59	76, 120, 169	25	
51, 105, 158		10	42, 69, 130	8	52, 119, 156	7	
37, 59, 131		114	46, 100, 152	136	28, 58, 126	159	
63, 91, 161		142	40, 87, 112	97	3, 10, 160	82	
79, 110, 141		127	54, 128, 164	143	21, 39, 62	100	
74, 122, 170		74	0, 1, 8	75	68, 113, 168	52	
16, 22, 26		15	20, 32, 47	13	15, 24, 41	29	
72, 118, 162		31	55, 90, 146	33	78, 115, 155	55	
65, 123, 147		115	60, 99, 167	99	13, 30, 43	50	
56, 98, 134		66	61, 101, 151	41	84, 116, 149	62	
11, 25, 31		79	66, 108, 157	68	12, 34, 38	30	
44, 57, ∞_1		12	75, 95, ∞_2	14	86, 88, ∞_3	164	
93, 109, ∞_4		18	94, 106, ∞_5	89	96, 121, ∞_6	78	
135, 140, ∞_7		155	139, 144, ∞_8	162	143, 153, ∞_9	124	

Table I Starter blocks and adders for (3,2)-DRGDDs of type 18^u

u	Starter	Adder	Starter	Adder	Starter	Adder	
4	0, 1, 20	0	3, 5, 34	1	4, 8, 21	3	
	6, 11, 22	4	7, 14, 39	2	9, 13, 32	34	
	12, 23, ∞_1	36	17, 19, ∞_2	8	15, 28, ∞_3	25	
	26, 52, ∞_4	16	16, 30, ∞_5	21	33, 50, ∞_6	53	
	18, 40, ∞_7	32	36, 46, ∞_8	41	37, 51, ∞_9	39	
	25, 41, ∞_{10}	5	42, 47, ∞_{11}	46	44, 45, ∞_{12}	12	
	27, 53, ∞_{13}	18	38, 48, ∞_{14}	35	35, 43, ∞_{15}	9	
	29, 49, ∞_{16}	33	24, 31, ∞_{17}	7	2, 10, ∞_{18}	11	
	5	1, 35, 66	0	0, 3, 18	2	4, 25, 63	4
6, 69, 71		1	8, 27, 62	3	10, 19, 65	6	
9, 38, 40		5	11, 21, 22	10	14, 15, 29	8	
13, 30, 52		11	5, 16, 58	23	2, 7, 44	31	
12, 39, ∞_1		7	17, 20, ∞_2	27	23, 33, ∞_3	19	
43, 49, ∞_4		15	46, 59, ∞_5	9	47, 53, ∞_6	59	
50, 64, ∞_7		12	51, 56, ∞_8	70	42, 67, ∞_9	17	
41, 68, ∞_{10}		57	37, 70, ∞_{11}	53	36, 61, ∞_{12}	21	
34, 57, ∞_{13}		51	32, 55, ∞_{14}	67	31, 60, ∞_{15}	29	
28, 54, ∞_{16}		33	26, 48, ∞_{17}	30	24, 45, ∞_{18}	24	
6		12, 21, 33	27	14, 25, 37	12	26, 45, 69	9
		22, 39, 61	19	34, 60, 83	16	31, 58, 82	11
	0, 46, 74	13	3, 5, 9	52	20, 38, 56	18	
	8, 15, 24	0	11, 19, 52	1	28, 50, 87	2	
	30, 59, 88	3	16, 29, 42	5	18, 32, 75	4	
	6, 13, 17	10	4, 7, 10	7	23, 40, 77	23	
	1, 53, ∞_1	17	2, 64, ∞_2	26	27, 73, ∞_3	24	
	51, 65, ∞_4	21	54, 55, ∞_5	30	57, 76, ∞_6	78	
	63, 84, ∞_7	8	66, 67, ∞_8	29	70, 72, ∞_9	86	
	71, 79, ∞_{10}	84	49, 80, ∞_{11}	85	47, 81, ∞_{12}	41	
	44, 78, ∞_{13}	89	43, 85, ∞_{14}	87	41, 89, ∞_{15}	68	
	48, 86, ∞_{16}	33	36, 68, ∞_{17}	47	35, 62, ∞_{18}	59	
	7	17, 30, 94	0	18, 89, 93	2	19, 34, 50	3
		21, 47, 88	4	15, 64, 102	1	26, 45, 79	5
		27, 73, 84	6	2, 63, 67	7	24, 37, 51	8
		25, 48, 83	10	1, 82, 104	14	10, 69, 101	9
11, 74, 90		12	7, 87, 96	11	8, 22, 42	18	
29, 36, 44		13	6, 28, 39	15	4, 54, 77	23	
3, 5, 85		31	0, 106, 107	48	14, 66, 71	38	
13, 23, 33		43	12, 20, 103	60	9, 16, 62	53	
31, 76, ∞_1		30	32, 75, ∞_2	57	35, 38, ∞_3	33	
40, 61, ∞_4		61	41, 70, ∞_5	44	43, 95, ∞_6	76	
46, 78, ∞_7		27	56, 100, ∞_8	90	65, 68, ∞_9	107	
72, 81, ∞_{10}		39	57, 97, ∞_{11}	24	58, 105, ∞_{12}	91	
59, 98, ∞_{13}		49	60, 99, ∞_{14}	92	55, 80, ∞_{15}	32	
53, 91, ∞_{16}		22	52, 92, ∞_{17}	45	49, 86, ∞_{18}	50	
8		1, 41, 66	46	15, 44, 63	41	28, 37, 125	42
		9, 36, 49	48	23, 56, 57	39	0, 100, 104	22
	18, 64, 76	0	22, 45, 105	1	11, 107, 117	2	
	5, 74, 87	3	13, 77, 78	4	29, 55, 60	5	
	4, 21, 115	6	16, 24, 27	8	7, 54, 69	9	
	10, 51, 118	10	17, 40, 83	11	20, 92, 122	13	
	35, 46, 62	7	32, 38, 82	16	26, 30, 106	14	
	12, 48, 99	18	34, 50, 52	21	25, 94, 103	20	
	31, 39, 112	19	6, 53, 98	15	2, 75, 97	27	
	19, 108, 120	17	3, 8, 93	23	14, 47, 85	45	
	42, 116, ∞_1	121	43, 114, ∞_2	64	61, 80, ∞_3	49	
	71, 95, ∞_4	37	73, 110, ∞_5	54	79, 96, ∞_6	119	
	81, 91, ∞_7	12	84, 90, ∞_8	61	86, 89, ∞_9	120	
	121, 123, ∞_{10}	91	72, 111, ∞_{11}	29	70, 102, ∞_{12}	123	
	68, 88, ∞_{13}	50	67, 119, ∞_{14}	98	65, 124, ∞_{15}	76	
	59, 113, ∞_{16}	56	58, 109, ∞_{17}	117	33, 101, ∞_{18}	100	

Table I (Cont.) Starter blocks and adders for (3,2)-DRGDDs of type 18^u

u	Starter	Adder	Starter	Adder	Starter	Adder	
10	18, 23, 61	99	28, 50, 57	34	40, 56, 91	19	
	32, 118, 125	98	43, 46, 59	127	20, 100, 111	53	
	37, 69, 135	141	11, 94, 102	146	35, 68, 87	25	
	7, 72, 155	51	8, 74, 115	143	10, 66, 122	37	
	21, 53, 123	154	70, 109, 112	73	3, 33, 144	74	
	41, 128, 148	85	34, 110, 159	56	13, 39, 151	115	
	5, 106, 139	0	9, 98, 145	1	36, 150, 154	2	
	27, 136, 161	4	26, 85, 131	3	25, 93, 95	5	
	1, 63, 103	6	17, 22, 140	10	38, 126, 160	11	
	31, 116, 124	8	0, 52, 156	12	30, 114, 149	13	
	29, 75, 76	7	24, 127, 133	9	19, 101, 132	15	
	15, 99, 157	20	12, 80, 97	14	6, 81, 104	16	
	4, 71, 92	21	2, 14, 16	26	51, 108, 146	17	
	48, 67, 79	22	47, 62, 84	18	45, 49, 60	84	
	44, 54, ∞_1	77	55, 78, ∞_2	63	64, 77, ∞_3	71	
	73, 121, ∞_4	126	89, 119, ∞_5	119	105, 134, ∞_6	109	
	117, 158, ∞_7	112	129, 153, ∞_8	83	137, 147, ∞_9	120	
	141, 142, ∞_{10}	39	96, 113, ∞_{11}	42	90, 152, ∞_{12}	159	
	88, 130, ∞_{13}	95	86, 120, ∞_{14}	59	82, 143, ∞_{15}	76	
	65, 138, ∞_{16}	96	58, 83, ∞_{17}	145	42, 107, ∞_{18}	134	
	14	13, 41, 203	220	34, 68, 109	197	37, 188, 218	71
		12, 52, 159	117	18, 82, 130	113	29, 174, 194	128
		11, 17, 209	18	16, 112, 206	88	6, 8, 15	35
		2, 199, 232	65	9, 25, 202	223	10, 58, 170	208
		38, 147, 180	127	40, 124, 184	36	49, 61, 228	30
		22, 32, 79	176	24, 160, 177	51	27, 135, 230	43
33, 107, 231		204	20, 168, 211	42	21, 91, 225	32	
28, 193, 196		228	30, 136, 154	39	31, 204, 214	78	
46, 99, 179		135	48, 57, 223	82	55, 111, 226	108	
56, 102, 129		57	59, 142, 187	55	45, 141, 165	97	
70, 120, 175		76	50, 150, 171	100	54, 86, 212	150	
64, 126, 208		190	65, 105, 133	134	69, 118, 185	64	
101, 123, 138		102	106, 191, 229	146	108, 143, 164	231	
0, 220, 222		149	23, 122, 215	186	74, 213, 233	148	
14, 146, 151		198	7, 116, 227	165	1, 26, 173	179	
67, 114, 200		156	63, 117, 216	129	19, 103, 176	59	
94, 152, 183		0	88, 93, 224	2	85, 96, 131	1	
78, 89, 210		3	53, 60, 132	4	39, 47, 166	5	
5, 178, 201		6	4, 84, 92	9	3, 161, 167	7	
81, 169, 186		8	80, 157, 172	58	76, 95, 155	11	
51, 83, 110		15	71, 72, 75	49	43, 77, 195	22	
42, 139, 162		17	35, 36, 219	10	44, 66, 137	158	
73, 98, ∞_1		75	90, 144, ∞_2	26	97, 115, ∞_3	91	
100, 158, ∞_4		160	104, 207, ∞_5	181	121, 192, ∞_6	24	
140, 189, ∞_7		101	153, 217, ∞_8	119	163, 182, ∞_9	205	
205, 221, ∞_{10}		125	62, 128, ∞_{11}	23	87, 181, ∞_{12}	196	
113, 198, ∞_{13}		155	119, 148, ∞_{14}	66	125, 149, ∞_{15}	192	
127, 156, ∞_{16}		233	134, 197, ∞_{17}	154	145, 190, ∞_{18}	31	

Table I (Cont.) Starter blocks and adders for (3,2)-DRGDDs of type 18^u

u	Starter	Adder	Starter	Adder	Starter	Adder
20	107, 131, 163	43	80, 172, 190	215	117, 196, 249	103
	98, 167, 179	19	71, 158, 264	85	46, 247, 299	139
	54, 118, 287	27	39, 160, 164	268	35, 97, 313	99
	81, 225, 291	322	53, 77, 173	274	13, 240, 340	127
	61, 66, 336	201	72, 127, 168	107	148, 206, 211	307
	82, 93, 194	250	76, 244, 281	115	69, 157, 236	54
	26, 234, 320	144	79, 275, 304	257	102, 246, 302	184
	95, 138, 318	74	114, 156, 315	33	11, 228, 255	29
	38, 261, 300	94	55, 90, 317	98	64, 137, 283	187
	49, 84, 339	190	57, 263, 292	281	34, 226, 303	207
	144, 272, 312	129	145, 227, 258	333	86, 169, 215	276
	78, 200, 326	40	67, 89, 142	237	22, 207, 209	116
	36, 214, 316	91	83, 113, 289	234	94, 328, 329	278
	85, 125, 150	206	73, 101, 178	262	70, 248, 274	102
	17, 301, 310	161	18, 41, 305	298	21, 177, 210	196
	7, 186, 256	253	111, 193, 278	332	87, 230, 257	233
	88, 91, 119	135	124, 195, 198	302	75, 191, 294	178
	130, 174, 268	320	1, 62, 273	92	2, 141, 233	56
	44, 187, 235	244	65, 115, 297	275	28, 309, 323	179
	24, 180, 212	133	19, 40, 252	282	132, 231, 290	284
	14, 56, 307	236	9, 279, 338	155	12, 161, 232	285
	42, 50, 237	174	121, 205, 280	156	8, 296, 314	304
	3, 245, 311	300	15, 218, 306	306	10, 217, 251	305
	92, 129, 331	289	99, 108, 116	136	6, 171, 183	231
	4, 128, 188	229	106, 166, 308	319	59, 140, 334	287
	43, 136, 159	123	52, 63, 181	256	60, 221, 319	162
	112, 155, 223	198	0, 176, 189	221	5, 126, 250	172
	30, 203, 321	263	120, 165, 204	189	110, 184, 199	0
	105, 286, 293	1	74, 104, 201	8	16, 253, 254	117
	96, 224, 241	39	37, 222, 242	167	29, 51, 324	329
	20, 45, 192	227	109, 154, 208	5	100, 133, 325	9
	33, 271, 285	128	27, 139, 333	202	48, 282, 288	14
	103, 147, 153	153	23, 25, 185	213	68, 202, 265	126
	58, 322, 332	53	32, 152, 243	75	31, 47, 182	84
	330, 337, ∞_1	220	123, 229, ∞_2	338	134, 220, ∞_3	28
	270, 335, ∞_4	235	146, 259, ∞_5	283	269, 295, ∞_6	328
	267, 277, ∞_7	191	262, 266, ∞_8	67	238, 284, ∞_9	104
	197, 327, ∞_{10}	180	213, 298, ∞_{11}	70	219, 239, ∞_{12}	145
	175, 216, ∞_{13}	267	170, 260, ∞_{14}	160	162, 341, ∞_{15}	246
	149, 276, ∞_{16}	61	135, 151, ∞_{17}	209	122, 143, ∞_{18}	252