Table	1:	Prime	2	Order	2

Group	A5	L2(11)	L2(13)	L2(19)	L2(27)	L2(29)
Prime	2	2	2	2	2	2
Multiplicity	2	2	2	2	2	2
#PIMs in Block	3	3	3	3	3	3
#PIMs diff. SR	0	0	0	0	0	0
Max Factors of PIMs	5	3	5	3	3	5
All PIMs same length	true	true	true	true	true	true
Max # diff. factors	0	0	0	0	0	0
PIMs diff by same #factors	true	true	$_{ m true}$	true	true	true
Max diff #modules in factors	0	0	0	0	0	0
All factors diff same $\#$ modules	true	${ m true}$	${ m true}$	${\it true}$	${ m true}$	true

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Group	A6	A7	J1	L2(23)	L2(8)	L3(2)
Prime	2	2	2	2	2	2
Multiplicity	3	3	3	3	3	3
#PIMs in Block	3	3	5	3	7	3
#PIMs diff. SR	0	2	1	2	0	2
Max Factors of PIMs	9	5	7	5	7	5
All PIMs same length	true	${\it true}$	${\it true}$	false	$_{\mathrm{true}}$	false
Max # diff. factors	0	2	2	2	0	2
PIMs diff by same #factors	${\it true}$	${\it true}$	${\rm true}$	true	true	${ m true}$
Max diff #modules in factors	0	1	1	1	0	1
All factors diff same $\#$ modules	${\it true}$	${\it true}$	${\rm true}$	${\it true}$	$_{\mathrm{true}}$	$_{\mathrm{true}}$

Table 3: Prime 2 Order 4

Group	L2(17)	L3(3)	M11	U3(5)
Prime	2	2	2	2
Multiplicity	4	4	4	4
#PIMs in Block	3	3	3	3
#PIMs diff. SR	0	2	1	2
Max Factors of PIMs	17	5	5	17
All PIMs same length	true	$_{\mathrm{true}}$	true	$_{\mathrm{true}}$
Max # diff. factors	0	2	2	12
PIMs diff by same #factors	true	$_{\mathrm{true}}$	true	true
Max diff #modules in factors	0	1	1	1
All factors diff same $\#$ modules	${\it true}$	$_{\mathrm{true}}$	${\it true}$	$_{\mathrm{true}}$

Table 4: Prime 2 Order 5

Table 1: 1 time 2 Order 9								
Group	L2(31)	L2(32)	L3(7)	U3(11)	U3(3)	U3(9)		
Prime	2	2	2	2	2	2		
Multiplicity	5	5	5	5	5	5		
#PIMs in Block	3	31	3	3	3	3		
#PIMs diff. SR	2	0	2	2	2	2		
Max Factors of PIMs	17	11	9	19	19	33		
All PIMs same length	false	$_{ m true}$	false	true	$_{ m true}$	$_{\mathrm{true}}$		
Max # diff. factors	14	0	6	14	14	28		
PIMs diff by same #factors	true	$_{ m true}$	false	false	false	$_{\mathrm{true}}$		
Max diff #modules in factors	1	0	3	2	2	1		
All factors diff same #modules	true	true	false	false	false	true		

Table 5: Prime 2 Order 6

Group	A8	G2(3)	L3(4)	M12	Sz(8)	U3(4)	U4(2)
Prime	2	2	2	2	2	2	2
Multiplicity	6	6	6	6	6	6	6
#PIMs in Block	7	7	5	3	7	15	7
#PIMs diff. SR	7	7	5	3	7	15	7
Max Factors of PIMs	13	13	13	10	27	17	13
All PIMs same length	true	false	true	$_{\mathrm{true}}$	true	false	true
Max # diff. factors	10	10	8	5	16	14	10
PIMs diff by same #factors	$_{\mathrm{true}}$	false	${ m true}$	true	true	false	false
Max diff #modules in factors	19	14	24	6	7	35	25
All factors diff same $\#$ modules	false	false	false	false	false	false	false

Table 6: Prime 2 Order 7								
Group	A10	A11	J2	j3	M22	M23	Mcl	U4(3)
Prime	2	2	2	2	2	2	2	2
Multiplicity	7	7	7	7	7	7	7	7
#PIMs in Block	7	7	7	10	7	9	8	9
#PIMs diff. SR	7	7	7	10	7	9	8	9
Max Factors of PIMs	19	17	37	25	24	27	25	15
All PIMs same length	true	true	true	${\it true}$	true	true	${\rm false}$	$_{ m true}$
Max # diff. factors	16	14	34	22	21	24	22	12
PIMs diff by same #factors	true	true	true	${\it true}$	true	true	${\rm false}$	false
Max diff #modules in factors	14	12	182	168	54	62	104	14
All factors diff same #modules	false	false	false	false	false	false	false	false

Table 7: Prime 2 Order 9						
Group	A12	$_{\mathrm{HS}}$	S6(2)			
Prime	2	2	2			
Multiplicity	9	9	9			
#PIMs in Block	14	6	7			
#PIMs diff. SR	14	6	7			
Max Factors of PIMs	25	37	43			
All PIMs same length	true	true	true			
Max # diff. factors	22	34	40			
PIMs diff by same #factors	true	false	false			
Max diff #modules in factors	236	125	307			
All factors diff same $\#$ modules	${\rm false}$	${\rm false}$	false			

Table 8: Prime 2 Order 10								
Group	$_{\mathrm{He}}$	$_{\mathrm{He}}$	L5(2)	M24	2F4(2)'			
Prime	2	2	2	2	2			
Multiplicity	10	10	10	10	11			
#PIMs in Block	11	3	15	13	3			
#PIMs diff. SR	11	2	15	13	3			
Max Factors of PIMs	49	5	25	65	40			
All PIMs same length	false	${\it true}$	true	true	false			
Max # diff. factors	46	2	22	62	37			
PIMs diff by same #factors	false	${\it true}$	false	true	false			
Max diff #modules in factors	336	1	160	1202	517			
All factors diff same #modules	${\rm false}$	${\it true}$	false	${\rm false}$	false			