

THE SUBGROUP LATTICE OF $PGL_2(29) \cong L_2(29) : 2$

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Nr.	Structure	Order	Length	Maximal Subgroups	Minimal Overgroups
1	$L_2(29) : 2$	24360	1	2, 3 (30), 7 (406), 10 (435), 18 (1015)	
2	$L_2(29)$	12180	1	4 (30), 8 (406), 11 (406), 15 (435)	1
3	$29 : 7 : 2 \cdot 2$	812	30	4, 6, 16 (29)	1
4	$29 : 7 : 2$	406	30	5, 9, 21 (29)	2, 3
5	$29 : 7$	203	30	14, 30 (29)	4
6	$D_{58} \cdot 2$	116	30	9, 35 (29)	3
7	D_{60}	60	406	12, 11, 13, 19 (3), 24 (5)	1
8	A_5	60	406	25 (5), 26 (6), 31 (10)	2
9	D_{58}	58	30	14, 39 (29)	4, 6
10	D_{56}	56	435	17, 16, 15, 29 (7)	1
11	D_{30}	30	406	20, 26 (3), 31 (5)	2, 7
12	30	30	406	20, 27, 32	7
13	D_{30}	30	406	20, 28 (3), 33 (5)	7
14	29	29	30	41	5, 9
15	D_{28}	28	435	22 (2), 21, 36 (7)	2, 10
16	28	28	435	21, 35	3 (2), 10
17	D_{28}	28	435	23 (2), 21, 37 (7)	10
18	$2^2 : S_3$	24	1015	25, 29 (3), 33 (4)	1
19	D_{20}	20	1218	28, 27, 26, 37 (5)	7
20	15	15	406	34, 38	11, 12, 13
21	14	14	435	30, 39	4 (2), 15, 16, 17
22	D_{14}	14	870	30, 39 (7)	15
23	D_{14}	14	870	30, 40 (7)	17
24	D_{12}	12	2030	33, 32, 31, 37 (3)	7
25	A_4	12	1015	36, 38 (4)	8 (2), 18
26	D_{10}	10	1218	34, 39 (5)	8 (2), 11, 19
27	10	10	406	34, 40	12, 19 (3)
28	D_{10}	10	1218	34, 40 (5)	13, 19
29	D_8	8	3045	36, 37, 35	10, 18
30	7	7	435	41	5 (2), 21, 22 (2), 23 (2)

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Nr.	Structure	Order	Length	Maximal Subgroups	Minimal Overgroups
31	S_3	6	2030	38, 39 (3)	8 (2), 11, 24
32	6	6	406	38, 40	12, 24 (5)
33	S_3	6	2030	38, 40 (3)	13, 18 (2), 24
34	5	5	406	41	20, 26 (3), 27, 28 (3)
35	4	4	435	39	6 (2), 16, 29 (7)
36	2^2	4	1015	39 (3)	15 (3), 25, 29 (3)
37	2^2	4	3045	40 (2), 39	17, 19 (2), 24 (2), 29
38	3	3	406	41	20, 25 (10), 31 (5), 32, 33 (5)
39	2	2	435	41	9 (2), 21, 22 (14), 26 (14), 31 (14), 35, 36 (7), 37 (7)
40	2	2	406	41	23 (15), 27, 28 (15), 32, 33 (15), 37 (15)
41	1	1	1		14 (30), 30 (435), 34 (406), 38 (406), 39 (435), 40 (406)

TABLE 1. Subgroup lattice of $L_2(29) : 2$

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