$O'N.2$

$L_3(7) \leq L_3(7).2$	491040	1a$^{\pm}$ + 10944a$^{\pm}$ + 26752a$^{\pm}$ + 32395ab + 37696a$^{\pm}$ + 52668a$^{\pm}$ + 85064a$^{\pm}$	13

Character Numbers: [1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 20 , 21]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}
χ_1	1	1	912	11172	11172	11172	12768	32928	32928	52136	52136	117306	156408
χ_2	1	1	-912	-11172	-11172	11172	12768	-32928	-32928	52136	52136	117306	-156408
χ_3	1	1	98	238	238	392	-212	-28	-28	161	161	-504	-518
χ_4	1	1	-98	-238	-238	392	-212	28	28	161	161	-504	518
χ_5	1	1	$-42r2$	$84r2$	$84r2$	-42	222	$105r2$	$105r2$	161	161	-504	$-336r2$
χ_6	1	1	$42r2$	$-84r2$	$-84r2$	-42	222	$-105r2$	$-105r2$	161	161	-504	$336r2$
χ_7	1	1	0	0	0	84	96	0	0	-280	-280	378	0
χ_8	1	-1	0	-84	84	0	0	-294	294	-343	343	0	0
χ_9	1	-1	0	84	-84	0	0	294	-294	-343	343	0	0
χ_{10}	1	1	$8r7$	$-26r7$	$-26r7$	-112	-128	$80r7$	$80r7$	56	56	126	$-116r7$
χ_{11}	1	1	$-8r7$	$26r7$	$26r7$	-112	-128	$-80r7$	$-80r7$	56	56	126	$116r7$
χ_{12}	1	-1	0	114	-114	0	0	-96	96	152	-152	0	0
χ_{13}	1	-1	0	-114	114	0	0	96	-96	152	-152	0	0

Ramanujan Graphs: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13], [2, 3, 4, 5, 6, 10, 12, 13], [2, 3, 4, 5,

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