

Character Tables of Multiplicity-Free Endomorphism Rings

$G = Co_2$ (no. 4)

$H = U_5(2) < U_6(2).2$

rank: 20

degree: 3091200

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a$	1	1	176	176	495	495	5346	5346	8910	8910
$23a$	1	-1	176	-176	495	-495	1782	-1782	-2970	2970
$253a$	1	-1	-16	16	15	-15	1782	-1782	1350	-1350
$275a$	1	1	176	176	495	495	378	378	630	630
$1771a$	1	1	-16	-16	15	15	1026	1026	270	270
$2024a$	1	1	176	176	495	495	-54	-54	-90	-90
$2277a$	1	-1	176	-176	495	-495	-18	18	30	-30
$4025a$	1	1	-16	-16	15	15	378	378	-810	-810
$23000a$	1	1	8	8	-9	-9	378	378	126	126
$31625a$	1	-1	-16	16	15	-15	270	-270	-162	162
$31625b$	1	1	8	8	-9	-9	-54	-54	414	414
$37422a$	1	-1	-16	16	15	-15	-18	18	350	-350
$63250a$	1	-1	8	-8	-9	9	270	-270	54	-54
$212520a$	1	1	-16	-16	15	15	-54	-54	-90	-90
$284625a$	1	-1	8	-8	-9	9	-18	18	-138	138
$312984a$	1	1	-16	-16	15	15	26	26	70	70
$398475b$	1	1	8	8	-9	-9	-54	-54	30	30
$462000a$	1	-1	-16	16	15	-15	-18	18	-18	18
$558900a$	1	1	8	8	-9	-9	26	26	-50	-50
$664125c$	1	-1	8	-8	-9	9	-18	18	54	-54

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}	O_{18}
$1a$	14256	14256	16896	142560	142560	253440	253440	427680
$23a$	4752	-4752	0	-47520	47520	0	0	142560
$253a$	-432	432	0	-12960	12960	-30720	30720	-12960
$275a$	1008	1008	-768	10080	10080	-11520	-11520	30240
$1771a$	-1296	-1296	-1536	4320	4320	7680	7680	-4320
$2024a$	-144	-144	96	-1440	-1440	1440	1440	-4320
$2277a$	-48	48	0	480	-480	0	0	-1440
$4025a$	432	432	768	4320	4320	-3840	-3840	-4320
$23000a$	504	504	576	-1008	-1008	576	576	0
$31625a$	-432	432	0	-864	864	1536	-1536	-864
$31625b$	360	360	-576	576	576	-576	-576	-1296
$37422a$	368	-368	0	-960	960	1280	-1280	-960
$63250a$	216	-216	0	864	-864	0	0	432
$212520a$	144	144	-96	0	0	480	480	0
$284625a$	120	-120	0	-192	192	0	0	-432
$312984a$	-96	-96	64	-80	-80	-320	-320	80
$398475b$	-24	-24	192	192	192	192	192	-144
$462000a$	0	0	0	144	-144	-192	192	144
$558900a$	-24	-24	-128	-128	-128	-128	-128	176
$664125c$	-72	72	0	0	0	0	0	144

	O_{19}	O_{20}
$1a$	427680	1368576
$23a$	-142560	0
$253a$	12960	0
$275a$	30240	-62208
$1771a$	-4320	-13824
$2024a$	-4320	7776
$2277a$	1440	0
$4025a$	-4320	6912
$23000a$	0	-1728
$31625a$	864	0
$31625b$	-1296	1728
$37422a$	960	0
$63250a$	-432	0
$212520a$	0	-864
$284625a$	432	0
$312984a$	80	576
$398475b$	-144	-576
$462000a$	-144	0
$558900a$	176	384
$664125c$	-144	0

References

- [Höh01] I. Höhler. Vielfachheitsfreie Permutationsdarstellungen und die Invarianten zugehöriger Graphen. Examensarbeit, RWTH Aachen, 2001.