

Character Tables of Multiplicity-Free Endomorphism Rings

$G = F_{3+}.2$ (no. 4)

$H = O_{10}^-(2) < O_{10}^-(2).2$

rank: 34

degree: 100354720284

	O_1	O_2	O_3	O_4	O_5	O_6	O_7
$1a^+$	1	1	25245	25245	104448	104448	1570800
$1a^-$	1	-1	25245	-25245	104448	-104448	1570800
$8671a^+$	1	-1	-5049	5049	-13056	13056	157080
$8671a^-$	1	1	-5049	-5049	-13056	-13056	157080
$57477a^+$	1	1	1755	1755	16752	16752	145740
$57477a^-$	1	-1	1755	-1755	16752	-16752	145740
$249458a^+$	1	1	3195	3195	5664	5664	27300
$249458a^-$	1	-1	3195	-3195	5664	-5664	27300
$555611a^+$	1	-1	-1485	1485	8544	-8544	56100
$555611a^-$	1	1	-1485	-1485	8544	8544	56100
$1666833a^+$	1	1	2079	2079	-2256	-2256	26400
$1666833a^-$	1	-1	2079	-2079	-2256	2256	26400
$35873145a^+$	1	1	819	819	1776	1776	10020
$35873145a^-$	1	-1	819	-819	1776	-1776	10020
$48893768a^+$	1	-1	-189	189	-2688	2688	19380
$48893768a^-$	1	1	-189	-189	-2688	-2688	19380
$79452373a^+$	1	1	-45	-45	3072	3072	14340
$79452373a^-$	1	-1	-45	45	3072	-3072	14340
$415098112a^+$	1	-1	-639	639	-708	708	2730
$415098112a^-$	1	1	-639	-639	-708	-708	2730
$1264015025a^+$	1	1	171	171	912	912	1596
$1264015025a^-$	1	-1	171	-171	912	-912	1596
$1540153692a^+$	1	1	279	279	-816	-816	3000
$1540153692a^-$	1	-1	279	-279	-816	816	3000
$2346900864a^+$	1	-1	-315	315	588	-588	1110
$2346900864a^-$	1	1	-315	-315	588	588	1110
$3208653525a^+$	1	1	387	387	48	48	-780
$3208653525a^-$	1	-1	387	-387	48	-48	-780
$10169903744a^+$	1	-1	-99	99	-276	276	30
$10169903744a^-$	1	1	-99	-99	-276	-276	30
$13904165275a^+$	1	1	63	63	48	48	192
$13904165275a^-$	1	-1	63	-63	48	-48	192
$17161712568a^+$	1	1	-45	-45	48	48	-780
$17161712568a^-$	1	-1	-45	45	48	-48	-780

	O_8	O_9	O_{10}	O_{11}	O_{12}
$1a^+$	1570800	12773376	12773376	45957120	45957120
$1a^-$	-1570800	12773376	-12773376	45957120	-45957120
$8671a^+$	-157080	798336	-798336	2010624	-2010624
$8671a^-$	157080	798336	798336	2010624	2010624
$57477a^+$	145740	145152	145152	-145920	-145920
$57477a^-$	-145740	145152	-145152	-145920	145920
$249458a^+$	27300	-266112	-266112	798720	798720
$249458a^-$	-27300	-266112	266112	798720	-798720
$555611a^+$	-56100	-57024	57024	337920	-337920
$555611a^-$	56100	-57024	-57024	337920	337920
$1666833a^+$	26400	-14256	-14256	489984	489984
$1666833a^-$	-26400	-14256	14256	489984	-489984
$35873145a^+$	10020	55296	55296	26304	26304
$35873145a^-$	-10020	55296	-55296	26304	-26304
$48893768a^+$	-19380	16848	-16848	-37056	37056
$48893768a^-$	19380	16848	16848	-37056	-37056
$79452373a^+$	14340	-1728	-1728	-30720	-30720
$79452373a^-$	-14340	-1728	1728	-30720	30720
$415098112a^+$	-2730	-16632	16632	34944	-34944
$415098112a^-$	2730	-16632	-16632	34944	34944
$1264015025a^+$	1596	-6912	-6912	-6528	-6528
$1264015025a^-$	-1596	-6912	6912	-6528	6528
$1540153692a^+$	3000	-5616	-5616	384	384
$1540153692a^-$	-3000	-5616	5616	384	-384
$2346900864a^+$	-1110	4752	-4752	10320	-10320
$2346900864a^-$	1110	4752	4752	10320	10320
$3208653525a^+$	-780	3456	3456	12480	12480
$3208653525a^-$	780	3456	-3456	12480	-12480
$10169903744a^+$	-30	3456	-3456	-1776	1776
$10169903744a^-$	30	3456	3456	-1776	-1776
$13904165275a^+$	192	-432	-432	-3072	-3072
$13904165275a^-$	-192	-432	432	-3072	3072
$17161712568a^+$	-780	-1728	-1728	-480	-480
$17161712568a^-$	780	-1728	1728	-480	480

	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a^+$	67858560	67858560	107233280	107233280	193881600
$1a^-$	67858560	-67858560	107233280	-107233280	193881600
$8671a^+$	-3392928	3392928	-1340416	1340416	4847040
$8671a^-$	-3392928	-3392928	-1340416	-1340416	4847040
$57477a^+$	1955016	1955016	4102784	4102784	1639440
$57477a^-$	1955016	-1955016	4102784	-4102784	1639440
$249458a^+$	-302400	-302400	546560	546560	2311200
$249458a^-$	-302400	302400	546560	-546560	2311200
$555611a^+$	178200	-178200	1168640	-1168640	-1782000
$555611a^-$	178200	178200	1168640	1168640	-1782000
$1666833a^+$	28512	28512	-256960	-256960	-712800
$1666833a^-$	28512	-28512	-256960	256960	-712800
$35873145a^+$	129816	129816	-75520	-75520	179280
$35873145a^-$	129816	-129816	-75520	75520	179280
$48893768a^+$	-132840	132840	-65152	65152	6480
$48893768a^-$	-132840	-132840	-65152	-65152	6480
$79452373a^+$	26136	26136	111104	111104	-2160
$79452373a^-$	26136	-26136	111104	-111104	-2160
$415098112a^+$	15120	-15120	-6832	6832	57780
$415098112a^-$	15120	15120	-6832	-6832	57780
$1264015025a^+$	-21816	-21816	-2944	-2944	23760
$1264015025a^-$	-21816	21816	-2944	2944	23760
$1540153692a^+$	4752	4752	2240	2240	-21600
$1540153692a^-$	4752	-4752	2240	-2240	-21600
$2346900864a^+$	-4320	4320	-10720	10720	-19980
$2346900864a^-$	-4320	-4320	-10720	-10720	-19980
$3208653525a^+$	-7560	-7560	7424	7424	3024
$3208653525a^-$	-7560	7560	7424	-7424	3024
$10169903744a^+$	-1728	1728	7424	-7424	5940
$10169903744a^-$	-1728	-1728	7424	7424	5940
$13904165275a^+$	6048	6048	-8128	-8128	-864
$13904165275a^-$	6048	-6048	-8128	8128	-864
$17161712568a^+$	-1080	-1080	2240	2240	-2160
$17161712568a^-$	-1080	1080	2240	-2240	-2160

	O_{18}	O_{19}	O_{20}	O_{21}
$1a^+$	193881600	263208960	263208960	579059712
$1a^-$	-193881600	263208960	-263208960	579059712
$8671a^+$	-4847040	-3290112	3290112	-18095616
$8671a^-$	4847040	-3290112	-3290112	-18095616
$57477a^+$	1639440	-1983744	-1983744	2370816
$57477a^-$	-1639440	-1983744	1983744	2370816
$249458a^+$	2311200	2419200	2419200	2161152
$249458a^-$	-2311200	2419200	-2419200	2161152
$555611a^+$	1782000	1468800	-1468800	-3269376
$555611a^-$	-1782000	1468800	1468800	-3269376
$1666833a^+$	-712800	-1237248	-1237248	2318976
$1666833a^-$	712800	-1237248	1237248	2318976
$35873145a^+$	179280	262656	262656	161856
$35873145a^-$	-179280	262656	-262656	161856
$48893768a^+$	-6480	69120	-69120	22464
$48893768a^-$	6480	69120	69120	22464
$79452373a^+$	-2160	-100224	-100224	66816
$79452373a^-$	2160	-100224	100224	66816
$415098112a^+$	-57780	-30240	30240	-67536
$415098112a^-$	57780	-30240	-30240	-67536
$1264015025a^+$	23760	-6912	-6912	1152
$1264015025a^-$	-23760	-6912	6912	1152
$1540153692a^+$	-21600	24192	24192	14976
$1540153692a^-$	21600	24192	-24192	14976
$2346900864a^+$	19980	8640	-8640	-2736
$2346900864a^-$	-19980	8640	8640	-2736
$3208653525a^+$	3024	-6912	-6912	-17856
$3208653525a^-$	-3024	-6912	6912	-17856
$10169903744a^+$	-5940	-6912	6912	1584
$10169903744a^-$	5940	-6912	-6912	1584
$13904165275a^+$	-864	-6912	-6912	-12672
$13904165275a^-$	864	-6912	6912	-12672
$17161712568a^+$	-2160	8640	8640	12384
$17161712568a^-$	2160	8640	-8640	12384

	O_{22}	O_{23}	O_{24}	O_{25}
$1a^+$	579059712	1085736960	1085736960	5147197440
$1a^-$	-579059712	1085736960	-1085736960	5147197440
$8671a^+$	18095616	27143424	-27143424	80424960
$8671a^-$	-18095616	27143424	27143424	80424960
$57477a^+$	2370816	16284240	16284240	-10730496
$57477a^-$	-2370816	16284240	-16284240	-10730496
$249458a^+$	2161152	-393120	-393120	-5376000
$249458a^-$	-2161152	-393120	393120	-5376000
$555611a^+$	3269376	1568160	-1568160	5913600
$555611a^-$	-3269376	1568160	1568160	5913600
$1666833a^+$	2318976	1012176	1012176	3480576
$1666833a^-$	-2318976	1012176	-1012176	3480576
$35873145a^+$	161856	20304	20304	561408
$35873145a^-$	-161856	20304	-20304	561408
$48893768a^+$	-22464	456192	-456192	-652800
$48893768a^-$	22464	456192	456192	-652800
$79452373a^+$	66816	-120960	-120960	-316416
$79452373a^-$	-66816	-120960	120960	-316416
$415098112a^+$	67536	-9828	9828	-84000
$415098112a^-$	-67536	-9828	-9828	-84000
$1264015025a^+$	1152	-34128	-34128	167424
$1264015025a^-$	-1152	-34128	34128	167424
$1540153692a^+$	14976	-54864	-54864	36096
$1540153692a^-$	-14976	-54864	54864	36096
$2346900864a^+$	2736	-25380	25380	-58080
$2346900864a^-$	-2736	-25380	-25380	-58080
$3208653525a^+$	-17856	-5616	-5616	-74496
$3208653525a^-$	17856	-5616	5616	-74496
$10169903744a^+$	-1584	-20196	20196	36960
$10169903744a^-$	1584	-20196	-20196	36960
$13904165275a^+$	-12672	9936	9936	-12288
$13904165275a^-$	12672	9936	-9936	-12288
$17161712568a^+$	12384	15120	15120	-1920
$17161712568a^-$	-12384	15120	-15120	-1920

	O_{26}	O_{27}	O_{28}	O_{29}
$1a^+$	5147197440	5428684800	5428684800	7238246400
$1a^-$	-5147197440	5428684800	-5428684800	7238246400
$8671a^+$	-80424960	-67858560	67858560	-90478080
$8671a^-$	80424960	-67858560	-67858560	-90478080
$57477a^+$	-10730496	30119040	30119040	-7197120
$57477a^-$	10730496	30119040	-30119040	-7197120
$249458a^+$	-5376000	5443200	5443200	-22377600
$249458a^-$	5376000	5443200	-5443200	-22377600
$555611a^+$	-5913600	1425600	-1425600	1900800
$555611a^-$	5913600	1425600	1425600	1900800
$1666833a^+$	3480576	-498960	-498960	-665280
$1666833a^-$	-3480576	-498960	498960	-665280
$35873145a^+$	561408	-544320	-544320	665280
$35873145a^-$	-561408	-544320	544320	665280
$48893768a^+$	652800	-149040	149040	501120
$48893768a^-$	-652800	-149040	-149040	501120
$79452373a^+$	-316416	-855360	-855360	17280
$79452373a^-$	316416	-855360	855360	17280
$415098112a^+$	84000	-68040	68040	279720
$415098112a^-$	-84000	-68040	-68040	279720
$1264015025a^+$	167424	124416	124416	63936
$1264015025a^-$	-167424	124416	-124416	63936
$1540153692a^+$	36096	19440	19440	-60480
$1540153692a^-$	-36096	19440	-19440	-60480
$2346900864a^+$	58080	77760	-77760	-50760
$2346900864a^-$	-58080	77760	77760	-50760
$3208653525a^+$	-74496	-15552	-15552	63936
$3208653525a^-$	74496	-15552	15552	63936
$10169903744a^+$	-36960	19440	-19440	-11880
$10169903744a^-$	36960	19440	19440	-11880
$13904165275a^+$	-12288	19440	19440	-29376
$13904165275a^-$	12288	19440	-19440	-29376
$17161712568a^+$	-1920	-38880	-38880	17280
$17161712568a^-$	1920	-38880	38880	17280

	O_{30}	O_{31}	O_{32}	O_{33}
$1a^+$	7238246400	12634030080	12634030080	17371791360
$1a^-$	-7238246400	12634030080	-12634030080	17371791360
$8671a^+$	90478080	-39481344	39481344	108573696
$8671a^-$	-90478080	-39481344	-39481344	108573696
$57477a^+$	-7197120	-44706816	-44706816	7983360
$57477a^-$	7197120	-44706816	44706816	7983360
$249458a^+$	-22377600	21288960	21288960	-6289920
$249458a^-$	22377600	21288960	-21288960	-6289920
$555611a^+$	-1900800	7050240	-7050240	-15966720
$555611a^-$	1900800	7050240	7050240	-15966720
$1666833a^+$	-665280	2073600	2073600	-6044544
$1666833a^-$	665280	2073600	-2073600	-6044544
$35873145a^+$	665280	-587520	-587520	-867456
$35873145a^-$	-665280	-587520	587520	-867456
$48893768a^+$	-501120	456192	-456192	-508032
$48893768a^-$	501120	456192	456192	-508032
$79452373a^+$	17280	635904	635904	552960
$79452373a^-$	-17280	635904	-635904	552960
$415098112a^+$	-279720	-66528	66528	-39312
$415098112a^-$	279720	-66528	-66528	-39312
$1264015025a^+$	63936	-152064	-152064	-152064
$1264015025a^-$	-63936	-152064	152064	-152064
$1540153692a^+$	-60480	-172800	-172800	210816
$1540153692a^-$	60480	-172800	172800	210816
$2346900864a^+$	50760	-82080	82080	151200
$2346900864a^-$	-50760	-82080	-82080	151200
$3208653525a^+$	63936	-6912	-6912	44928
$3208653525a^-$	-63936	-6912	6912	44928
$10169903744a^+$	11880	16416	-16416	-48384
$10169903744a^-$	-11880	16416	16416	-48384
$13904165275a^+$	-29376	55296	55296	-17280
$13904165275a^-$	29376	55296	-55296	-17280
$17161712568a^+$	17280	-17280	-17280	8640
$17161712568a^-$	-17280	-17280	17280	8640

	O_{34}
$1a^+$	17371791360
$1a^-$	-17371791360
$8671a^+$	-108573696
$8671a^-$	108573696
$57477a^+$	7983360
$57477a^-$	-7983360
$249458a^+$	-6289920
$249458a^-$	6289920
$555611a^+$	15966720
$555611a^-$	-15966720
$1666833a^+$	-6044544
$1666833a^-$	6044544
$35873145a^+$	-867456
$35873145a^-$	867456
$48893768a^+$	508032
$48893768a^-$	-508032
$79452373a^+$	552960
$79452373a^-$	-552960
$415098112a^+$	39312
$415098112a^-$	-39312
$1264015025a^+$	-152064
$1264015025a^-$	152064
$1540153692a^+$	210816
$1540153692a^-$	-210816
$2346900864a^+$	-151200
$2346900864a^-$	151200
$3208653525a^+$	44928
$3208653525a^-$	-44928
$10169903744a^+$	48384
$10169903744a^-$	-48384
$13904165275a^+$	-17280
$13904165275a^-$	17280
$17161712568a^+$	8640
$17161712568a^-$	-8640

References

- [Mül03] J. Müller. *On endomorphism rings and character tables*. Habilitationsschrift, RWTH Aachen, 2003.