

Character Tables of Multiplicity-Free Endomorphism Rings

$G = HN$ (no. 4)

$H = U_3(8).3_1$

rank: 19

degree: 16500000

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8
$1a$	1	1539	14364	25536	25536	25536	68096	131328
$760a$	1	-81	3024	-1344	-4704	-1344	7616	1728
$3344a$	1	-261	1764	336	2436	336	896	5328
$9405a$	1	99	924	-1344	2016	-1344	896	-3072
$35112a$	1	99	684	-624	-144	-624	-64	1728
$35112b$	1	99	684	-624	-144	-624	-64	1728
$267520a$	1	9	414	336	366	336	716	-72
$270864a$	1	19	364	336	-644	336	-224	-1072
$374528a$	1	-81	-36	36	-144	36	-424	-72
$374528b$	1	-81	-36	36	-144	36	-424	-72
$656250a$	1	-45	-180	$144+48i$	48	$144-48i$	320	0
$656250b$	1	-45	-180	$144-48i$	48	$144+48i$	320	0
$1185030a$	1	19	44	96	176	96	-704	128
$1361920a$	1	54	9	126	126	126	116	153
$1361920b$	1	54	-81	$-54+75i$	-84	$-54-75i$	56	-297
$1361920c$	1	54	-81	$-54-75i$	-84	$-54+75i$	56	-297
$1575936a$	1	-26	109	-24	-194	-24	136	353
$2407680a$	1	9	-66	-24	-54	-24	-4	528
$4561920a$	1	-26	29	-84	86	-84	16	-247

	O_9	O_{10}	O_{11}	O_{12}
$1a$	229824	229824	612864	612864
$760a$	-12096	-12096	-12096	-12096
$3344a$	3024	3024	-25536	-25536
$9405a$	1344	1344	8064	8064
$35112a$	-216+1800r5	-216-1800r5	3744-2400r5	3744+2400r5
$35112b$	-216-1800r5	-216+1800r5	3744+2400r5	3744-2400r5
$267520a$	-216	-216	204	204
$270864a$	-336	-336	224	224
$374528a$	-486-450r5	-486+450r5	324-900r5	324+900r5
$374528b$	-486+450r5	-486-450r5	324+900r5	324-900r5
$656250a$	288	288	576	576
$656250b$	288	288	576	576
$1185030a$	384	384	64	64
$1361920a$	-351	-351	54	54
$1361920b$	189	189	-216	-216
$1361920c$	189	189	-216	-216
$1575936a$	609	609	-106	-106
$2407680a$	-336	-336	-36	-36
$4561920a$	-111	-111	-146	-146

	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}	O_{18}
$1a$	612864	612864	689472	787968	787968	5515776
$760a$	28224	28224	54432	-67392	36288	-108864
$3344a$	-8736	-8736	15372	17568	24768	22176
$9405a$	8064	8064	14112	10368	-1152	-8064
$35112a$	-4416	-4416	-1008	-1152	4608	-2304
$35112b$	-4416	-4416	-1008	-1152	4608	-2304
$267520a$	-276	-276	-558	1908	-1692	-7524
$270864a$	-896	-896	1652	128	-672	5376
$374528a$	504	504	-648	1728	1728	-3024
$374528b$	504	504	-648	1728	1728	-3024
$656250a$	-576-384i19	-576+384i19	720	-576	576	-576
$656250b$	-576+384i19	-576-384i19	720	-576	576	-576
$1185030a$	64	64	592	-832	-192	-1344
$1361920a$	549	549	-1053	-567	918	1971
$1361920b$	-81+225i10	-81-225i10	27	513	378	-1269
$1361920c$	-81-225i10	-81+225i10	27	513	378	-1269
$1575936a$	559	559	-733	-127	-342	-129
$2407680a$	-36	-36	702	468	-972	396
$4561920a$	-101	-101	-173	-367	-222	1191

	O_{19}
$1a$	5515776
$760a$	72576
$3344a$	-28224
$9405a$	-48384
$35112a$	576
$35112b$	576
$267520a$	6336
$270864a$	-3584
$374528a$	216
$374528b$	216
$656250a$	-1152
$656250b$	-1152
$1185030a$	896
$1361920a$	-2484
$1361920b$	1026
$1361920c$	1026
$1575936a$	-1124
$2407680a$	-144
$4561920a$	596

i10 = $Sqrt(-10)$

i19 = $Sqrt(-19)$

r5 = $Sqrt(5)$

References

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