

Character Tables of Multiplicity-Free Endomorphism Rings

$G = Fi_{23}$ (no. 6)

$H = 2^{11}.M_{23}$

rank: 16

degree: 195747435

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8
$1a$	1	506	23552	28336	113344	129536	971520	1036288
$782a$	1	209	-208	7546	5236	29744	116160	85888
$3588a$	1	-187	-2080	4774	10780	-10648	-62040	44704
$30888a$	1	149	1112	3346	4816	9584	35160	-8192
$60996a$	1	-43	1664	1246	-4844	-3088	2760	23392
$274482a$	1	41	-688	826	-2996	3536	-6960	9088
$789360a$	1	-85	-40	1204	784	-2080	-6960	-992
$812889a$	1	77	464	646	2116	-568	2760	4192
$1677390a$	1	-61	-640	364	1456	-64	-480	-512
$1951872a$	1	23	-580	124	-620	-1108	2760	5704
$5533110a$	1	53	-208	526	-380	728	-840	-1472
$7468032a$	1	11	422	-104	124	476	-2100	1468
$21348600a$	1	-31	176	178	-404	-136	816	-560
$28464800a$	1	-25	-28	-32	304	368	168	640
$29354325a$	1	29	80	22	196	-280	168	-224
$97976320a$	1	2	-55	-86	-74	-37	-75	-197

	O_9	O_{10}	O_{11}	O_{12}	O_{13}	O_{14}
$1a$	1813504	4533760	8290304	21762048	31088640	31653888
$782a$	250096	43120	-377344	-990528	865920	1462272
$3588a$	61600	-206360	154880	-192192	770880	-473088
$30888a$	62776	-7280	25856	67872	-98880	-150528
$60996a$	3136	-2240	2816	61824	27840	-86016
$274482a$	784	-7280	18944	49728	-21120	43008
$789360a$	7336	7840	-16480	13440	-12480	6720
$812889a$	-6704	17560	8576	5664	13440	-5376
$1677390a$	-896	-2240	16640	-10752	-15360	10752
$1951872a$	100	-260	-3520	-11832	-15720	-3648
$5533110a$	-2000	1000	-2944	-5856	4800	-5376
$7468032a$	814	1000	1844	-9132	-7800	168
$21348600a$	-656	-584	1664	-2112	480	1536
$28464800a$	-932	-944	-3232	2208	1056	-1344
$29354325a$	-176	-2888	-640	2208	-1536	3840
$97976320a$	499	1000	575	264	975	-939

	O_{15}	O_{16}
$1a$	36270080	58032128
$782a$	-985600	-512512
$3588a$	234080	-335104
$30888a$	56000	-1792
$60996a$	-209440	180992
$274482a$	-4480	-82432
$789360a$	5600	-3808
$812889a$	-3040	-39808
$1677390a$	-17920	19712
$1951872a$	22880	5696
$5533110a$	320	11648
$7468032a$	4940	7868
$21348600a$	2576	-2944
$28464800a$	800	992
$29354325a$	-928	128
$97976320a$	-955	-898

References

- [LLS95] S. A. Linton, K. Lux, and L. H. Soicher. The primitive distance-transitive representations of the Fischer groups. *Experiment. Math.*, 4(3):235–253, 1995.