Macbeath Singerman Symmetries of Quasi-platonic $PSL_2(q)$-actions

Remark 1 *$\mathcal{M}_{B_p} = \mathcal{M}(B_p, p)$ is the set of ovals of $\mathcal{M}_p$ whose edge pattern contains edges of type p. Similarly for $\mathcal{M}_{B_q}, \mathcal{M}_{B_r}$*

Symmetries of $PSL_2(7)$ actions

signature (l,m,n)	genus	#actions	inner/outer $\theta \in PSL_2(q)$?	"symmetry types" $(\pm\left\|\mathcal{M}_{B_p}\right\|, \pm\left\|\mathcal{M}_{B_q}\right\|, \pm\left\|\mathcal{M}_{B_r}\right\|)$
$(2,3,7)$	3	1	outer	$(-1,-1,-1)$
$(2,4,7)$	10	1	outer	$(-1,-1,-1)$
$(2,7,7)$	19	1	outer	$(-1,-1,-1)$
$(3,3,4)$	8	1	inner	$(-1,-1,-1)$
		1	outer	$(-1,-1,-1)$
$(3,3,7)$	17	1	inner	$(-1,-1,-1)$
$(3,4,4)$	15	1	inner	$(-1,-1,-1)$
$(3,4,7)$	24	1	outer	$(-3,-3,-3)$
		1	outer	$(-1,-1,-1)$
$(3,7,7)$	33	1	outer	$(-2,-2,-2)$
		1	outer	$(-3,-3,-3)$
$(4,4,4)$	22	1	outer	$(-1,-1,-1)$
		1	inner	$(-1,-1,-1)$
$(4,4,7)$	31	1	outer	$(-3,-1,-3)$
$(4,7,7)$	40	2	outer	$(-1,-1,-1)$
$(7,7,7)$	49	1	outer	$(-3,-3,-3)$

Symmetries of $PSL_2(8)$ actions

signature (l,m,n)	genus	#actions	inner/outer $\theta \in PSL_2(q)$?	"symmetry types" $(\pm\left\|\mathcal{M}_{B_p}\right\|, \pm\left\|\mathcal{M}_{B_q}\right\|, \pm\|\mathcal{M}_{B_r}\|)$
$(2,3,7)$	7	1	inner	$(-2,-2,-2)$
$(2,3,9)$	15	1	inner	$(-2,-2,-2)$
$(2,7,7)$	55	2	inner	$(-2,-2,-2)$
$(2,7,9)$	63	3	inner	$(-2,-2,-2)$
$(2,9,9)$	71	1	inner	$(-2,-2,-2)$
$(3,3,7)$	41	1	inner	$(-4,-4,-4)$
$(3,3,9)$	57	1	inner	$(-4,-4,-4)$
$(3,7,7)$	97	3	inner	$(-4,-4,-4)$
$(3,7,9)$	105	3	inner	$(-4,-4,-4)$
$(3,9,9)$	113	1	inner	$(-4,-4,-4)$
$(7,7,7)$	145	4	inner	$(-4,-4,-4)$
$(7,7,9)$	153	9	inner	$(-4,-4,-4)$
$(7,9,9)$	161	9	inner	$(-4,-4,-4)$
$(9,9,9)$	169	6	inner	$(-4,-4,-4)$

Samples from $PSL_2(11)$, $PSL_2(13)$, $PSL_2(19)$, $PSL_2(23)$

q	$\lvert PSL_2(q)\rvert$	signature (l,m,n)	genus	#actions	inner/outer $\theta \in PSL_2(q)$?	"symmetry types"
11	660	$(5,5,5)$	34	1	outer	$(-2,-2,-2)$
				3	outer	$(-5,-5,-5)$
				4	inner	$(-6,-6,-6)$
11	660	$(11,11,11)$	241	1	outer	$(-5,-5,-5)$
13	1092	$(13,13,13)$	241	1	inner	$(-6,-6,-6)$
19	3420	$(2,5,10)$	343	1	inner	$(-1,-1,-1)$
				1	outer	$(-1,-3,-3)$
19	3420	$(10,10,10)$	1198	10	inner	$(-1,-1,-1)$
				1	inner	$(-1,-2,-2)$
				1	inner	$(-2,-1,-2)$
				1	inner	$(-2,-2,-1)$
				1	inner	$(-5,-2,-2)$
				1	inner	$(-2,-5,-2)$
				1	inner	$(-2,-2,-5)$
19	3420	$(19,19,19)$	1441	1	outer	$(-9,-9,-9)$
23	6072	$(2,4,12)$	507	1	outer	$(-1,-1,-1)$
				1	inner	$(-2,-1,-3)$
23	6072	$(11,11,11)$	2209	46	outer	$(-2,-2,-2)$
				3	inner	$(-4,-4,-4)$
				11	inner	$(-6,-6,-6)$
				8	inner	$(-8,-8,-8)$
				54	outer	$(-11,-11,-11)$
				77	inner	$(-12,-12,-12)$
23	6072	$(23,23,23)$	2641	1	outer	$(-11,-11,-11)$