

In the tables below we list the subresults

$$\sum_{|\lambda|=w} \left( (-1)^{\sum_i \lambda_i} \cdot \sum_{S \in (\mathbb{P}^2 - \{\mathbf{P}\})(\lambda)} |\mathbf{C}_{\text{split}}(S)| \right)$$

for  $0 \leq w \leq 5$  and

$$\sum_{|\lambda|=w} |\mathbf{C}_{\text{split}}(\mathbf{P}, \lambda)| \cdot \sigma_N(\lambda)$$

for  $6 \leq w \leq 9$ .

The columns marked  $q$  contain the results from our computations in the article. The columns marked  $q = 2$  and  $q = 3$  contain the results from our computer programs.

For the explicit cases where we have a singularity on an irreducible component we do not know whether that singularity is a split node, a non-split node, or a cusp. So there will be some question marks in the tables.

For split nodes we have

$w$	$q$	$q = 2$	$q = 3$
0	$\frac{q^{13}}{2(q-1)^2}$	4096	$\frac{1594323}{8}$
1	$-\frac{q^{12}+q^{11}}{2(q-1)^2}$	-3072	$-\frac{177147}{2}$
2	$\frac{q^{10}}{2(q-1)^2}$	512	$\frac{59049}{8}$
3	0	0	0
4	0	0	0
5	0	0	0
6	?	1	0
7	?	-5	-9
8	$\frac{1}{2}(2q^3 - 53q^2 + 222q - 252)$	-2	$-\frac{9}{2}$
9	$\frac{1}{2}(13q^2 - 49q + 56)$	5	13
sum	?	1535	$\frac{236195}{2}$

For non-split nodes we have

$w$	$q$	$q = 2$	$q = 3$
0	$\frac{q^{13}}{2(q^2-1)}$	$\frac{4096}{3}$	$\frac{1594323}{16}$
1	$-\frac{q^{11}}{2(q-1)}$	$-1024$	$-\frac{177147}{4}$
2	$\frac{q^{10}}{2(q^2-1)}$	$\frac{512}{3}$	$\frac{59049}{16}$
3	0	0	0
4	0	0	0
5	0	0	0
6	?	3	-4
7	?	1	5
8	$\frac{1}{2}(q^2 - 6)$	-1	$\frac{3}{2}$
9	$\frac{1}{2}q(q - 1)$	1	3
sum	?	516	$\frac{118109}{2}$

For cusps we have

$w$	$q$	$q = 2$	$q = 3$
0	$\frac{q^{11}}{q-1}$	2048	$\frac{177147}{2}$
1	$-\frac{q^{10}+q^9}{q-1}$	-1536	-39366
2	$\frac{q^8}{q-1}$	256	$\frac{6561}{2}$
3	0	0	0
4	0	0	0
5	0	0	0
6	?	-1	-4
7	?	-1	0
8	0	0	0
9	0	0	0
sum	?	766	52484

For the sum of the split nodes, non-split nodes, and cusps we get

$w$	$q$ when $\text{char}(k) = 2$	$q = 2$	$q$ when $\text{char}(k) \neq 2$	$q = 3$
0	$\frac{q^{11}(q^3+q^2-1)}{(q-1)^2(q+1)}$	$\frac{22528}{3}$	$\frac{q^{11}(q^3+q^2-1)}{(q-1)^2(q+1)}$	$\frac{6200145}{16}$
1	$-\frac{q^9(q^3+q^2-1)}{(q-1)^2}$	$-5632$	$-\frac{q^9(q^3+q^2-1)}{(q-1)^2}$	$-\frac{688905}{4}$
2	$\frac{q^8(q^3+q^2-1)}{(q-1)^2(q+1)}$	$\frac{2816}{3}$	$\frac{q^8(q^3+q^2-1)}{(q-1)^2(q+1)}$	$\frac{229635}{16}$
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	$-16q^2 + 70q - 73$	3	$-16q^2 + 70q - 74$	-8
7	$-q^3 + 35q^2 - 156q + 175$	-5	$-q^3 + 35q^2 - 156q + 176$	-4
8	$q^3 - 26q^2 + 111q - 129$	-3	$q^3 - 26q^2 + 111q - 129$	-3
9	$7q^2 - 25q + 28$	6	$7q^2 - 25q + 28$	16
sum	$q^{11} + q^{10} - q^8 + 1$	2817	$q^{11} + q^{10} - q^8 + 1$	229636