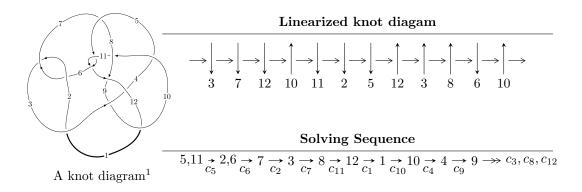
$12n_{0568} \ (K12n_{0568})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.56196 \times 10^{180} u^{75} - 6.92402 \times 10^{180} u^{74} + \dots + 4.56975 \times 10^{180} b - 7.18244 \times 10^{182}, \\ &3.11091 \times 10^{181} u^{75} - 7.34911 \times 10^{181} u^{74} + \dots + 1.32523 \times 10^{182} a - 3.27637 \times 10^{183}, \\ &u^{76} - 3u^{75} + \dots + 936u + 232 \rangle \\ I_2^u &= \langle 248830399 u^{22} + 208402801 u^{21} + \dots + 79543084b - 1349697652, \\ &410409361 u^{22} + 348035792 u^{21} + \dots + 79543084a - 2188204696, \ u^{23} + 2u^{22} + \dots - 8u - 8 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 99 representations.

¹The image of knot diagram is generated by the software "**Draw programme**" developed by Andrew Bartholomew(http://www.layer8.co.uk/maths/draw/index.htm#Running-draw), where we modified some parts for our purpose(https://github.com/CATsTAILs/LinksPainter).

 $^{^2}$ All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.
$$I_1^u = \langle 3.56 \times 10^{180} u^{75} - 6.92 \times 10^{180} u^{74} + \cdots + 4.57 \times 10^{180} b - 7.18 \times 10^{182}, \ 3.11 \times 10^{181} u^{75} - 7.35 \times 10^{181} u^{74} + \cdots + 1.33 \times 10^{182} a - 3.28 \times 10^{183}, \ u^{76} - 3u^{75} + \cdots + 936u + 232 \rangle$$

(i) Arc colorings

$$a_{11} = \begin{pmatrix} 1 \\ 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \\ d \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.234745u^{75} + 0.554555u^{74} + \dots + 169.599u + 24.7231 \\ -0.779466u^{75} + 1.51519u^{74} + \dots + 787.398u + 157.174 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ u^{2} \\ d \\ d = \begin{pmatrix} 0.498809u^{75} - 0.947197u^{74} + \dots - 460.943u - 87.1424 \\ 1.15577u^{75} - 2.09127u^{74} + \dots - 1178.23u - 242.449 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.913618u^{75} - 1.62170u^{74} + \dots - 954.260u - 197.783 \\ 0.641894u^{75} - 1.15647u^{74} + \dots - 655.502u - 136.716 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.656963u^{75} + 1.14407u^{74} + \dots + 717.288u + 155.306 \\ 1.15577u^{75} - 2.09127u^{74} + \dots - 1178.23u - 242.449 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{13} = \begin{pmatrix} 0.631741u^{75} - 1.27025u^{74} + \dots - 563.644u - 116.446 \\ 0.404533u^{75} - 0.758262u^{74} + \dots - 382.358u - 76.2189 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.234311u^{75} + 0.585458u^{74} + \dots + 97.6788u + 10.2271 \\ 1.16020u^{75} - 2.19526u^{74} + \dots - 1139.10u - 227.223 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.458281u^{75} - 0.798480u^{74} + \dots - 499.398u - 103.931 \\ 0.480346u^{75} - 0.857747u^{74} + \dots - 496.673u - 104.640 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -1.15033u^{75} + 2.16962u^{74} + \dots + 1108.09u + 217.684 \\ -1.71904u^{75} + 3.13616u^{74} + \dots + 1745.42u + 358.560 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.983457u^{75} + 1.79316u^{74} + \dots + 1053.18u + 204.030$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$4(4u^{76} + 181u^{75} + \dots + 50u + 1)$
c_2, c_6	$2(2u^{76} - u^{75} + \dots - 2u + 1)$
<i>c</i> ₃	$u^{76} - 7u^{75} + \dots + 842u + 773$
c_4	$u^{76} + u^{75} + \dots + 137983u + 158846$
c_5,c_{11}	$u^{76} - 3u^{75} + \dots + 936u + 232$
c ₇	$u^{76} - 5u^{75} + \dots - 19313u + 1532$
<i>c</i> ₈	$u^{76} - 4u^{75} + \dots + 20080608u + 2598032$
c_9	$2(2u^{76} + u^{75} + \dots + 296u + 712)$
c_{10}	$4(4u^{76} + 27u^{75} + \dots + 3218u + 419)$
c_{12}	$2(2u^{76} + 7u^{75} + \dots + 11068u + 1009)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$16(16y^{76} + 15y^{75} + \dots - 166y + 1)$
c_{2}, c_{6}	$4(4y^{76} - 181y^{75} + \dots - 50y + 1)$
c_3	$y^{76} - 107y^{75} + \dots - 13723192y + 597529$
c_4	$y^{76} + 33y^{75} + \dots + 325811545407y + 25232051716$
c_5, c_{11}	$y^{76} - 51y^{75} + \dots - 1128512y + 53824$
	$y^{76} - 11y^{75} + \dots - 47423585y + 2347024$
c ₈	$y^{76} + 62y^{75} + \dots + 198572181119104y + 6749770273024$
c_9	$4(4y^{76} + 367y^{75} + \dots + 3.78022 \times 10^7 y + 506944)$
c_{10}	$16(16y^{76} + 487y^{75} + \dots + 8708976y + 175561)$
c_{12}	$4(4y^{76} + 331y^{75} + \dots + 2.10845 \times 10^8y + 1018081)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.005098 + 1.009090I		
a = 0.393251 + 0.810515I	-4.16391 - 4.94670I	0. + 3.45130I
b = -0.705606 + 0.017434I		
u = -0.005098 - 1.009090I		
a = 0.393251 - 0.810515I	-4.16391 + 4.94670I	0 3.45130I
b = -0.705606 - 0.017434I		
u = 0.933682 + 0.297571I		
a = -0.108605 - 0.446950I	-0.08245 - 4.80485I	0
b = 0.636825 + 0.264630I		
u = 0.933682 - 0.297571I		
a = -0.108605 + 0.446950I	-0.08245 + 4.80485I	0
b = 0.636825 - 0.264630I		
u = 0.176764 + 1.009050I		
a = -0.361751 - 0.893889I	1.70045 + 2.91637I	0
b = 1.61810 + 0.10958I		
u = 0.176764 - 1.009050I		
a = -0.361751 + 0.893889I	1.70045 - 2.91637I	0
b = 1.61810 - 0.10958I		
u = 1.018160 + 0.180797I		
a = -3.61763 + 0.47037I	-6.55599 - 2.35969I	0
b = -2.95467 - 0.94404I		
u = 1.018160 - 0.180797I		
a = -3.61763 - 0.47037I	-6.55599 + 2.35969I	0
b = -2.95467 + 0.94404I		
u = -1.037780 + 0.050306I		
a = -2.18608 - 0.36963I	-2.48276 + 0.74819I	0
b = -1.068720 - 0.752547I		
u = -1.037780 - 0.050306I		
a = -2.18608 + 0.36963I	-2.48276 - 0.74819I	0
b = -1.068720 + 0.752547I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.279819 + 0.894406I		
a = -0.240842 - 0.954939I	2.20675 + 2.15189I	-2.00000 - 6.97084I
b = 0.473947 + 0.149110I		
u = -0.279819 - 0.894406I		
a = -0.240842 + 0.954939I	2.20675 - 2.15189I	-2.00000 + 6.97084I
b = 0.473947 - 0.149110I		
u = -0.931439 + 0.093793I		
a = 0.353517 - 0.205717I	-1.57052 + 0.52011I	-4.24531 + 0.I
b = -0.228533 + 0.380605I		
u = -0.931439 - 0.093793I		
a = 0.353517 + 0.205717I	-1.57052 - 0.52011I	-4.24531 + 0.I
b = -0.228533 - 0.380605I		
u = -1.077730 + 0.076763I		
a = 1.84215 + 0.42920I	-3.02707 - 0.18143I	0
b = 0.682352 - 0.497417I		
u = -1.077730 - 0.076763I		
a = 1.84215 - 0.42920I	-3.02707 + 0.18143I	0
b = 0.682352 + 0.497417I		
u = -1.109660 + 0.203084I		
a = 1.61262 + 1.92333I	-9.86665 + 5.91796I	0
b = 1.65697 + 2.09432I		
u = -1.109660 - 0.203084I		
a = 1.61262 - 1.92333I	-9.86665 - 5.91796I	0
b = 1.65697 - 2.09432I		
u = 1.136350 + 0.003599I		
a = -1.064320 - 0.075553I	-7.54536 + 1.24468I	0
b = -1.72518 - 0.75050I		
u = 1.136350 - 0.003599I		
a = -1.064320 + 0.075553I	-7.54536 - 1.24468I	0
b = -1.72518 + 0.75050I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.544396 + 1.000180I		
a = -0.095435 + 0.415036I	-8.85105 + 1.75177I	0
b = 1.69336 + 0.10370I		
u = -0.544396 - 1.000180I		
a = -0.095435 - 0.415036I	-8.85105 - 1.75177I	0
b = 1.69336 - 0.10370I		
u = 1.167580 + 0.149402I		
a = 1.72845 - 0.61424I	-2.82519 - 4.47594I	0
b = 1.52072 - 0.86765I		
u = 1.167580 - 0.149402I		
a = 1.72845 + 0.61424I	-2.82519 + 4.47594I	0
b = 1.52072 + 0.86765I		
u = 1.141340 + 0.356267I		
a = -1.97705 + 0.57022I	-8.60220 - 8.16498I	0
b = -1.379620 - 0.269089I		
u = 1.141340 - 0.356267I		
a = -1.97705 - 0.57022I	-8.60220 + 8.16498I	0
b = -1.379620 + 0.269089I		
u = 1.100400 + 0.514009I		
a = 0.182278 - 0.554378I	-0.63838 - 5.02004I	0
b = 0.476968 - 0.410769I		
u = 1.100400 - 0.514009I		
a = 0.182278 + 0.554378I	-0.63838 + 5.02004I	0
b = 0.476968 + 0.410769I		
u = 1.111630 + 0.510249I		
a = 0.303809 - 0.263324I	-0.68506 - 5.04397I	0
b = 0.425849 - 0.400376I		
u = 1.111630 - 0.510249I		
a = 0.303809 + 0.263324I	-0.68506 + 5.04397I	0
b = 0.425849 + 0.400376I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.741491 + 0.975965I		
a = 0.627850 - 0.813152I	0.664828 + 0.016710I	0
b = 0.160474 + 1.091760I		
u = 0.741491 - 0.975965I		
a = 0.627850 + 0.813152I	0.664828 - 0.016710I	0
b = 0.160474 - 1.091760I		
u = 0.002030 + 1.272340I		
a = 0.513090 + 0.516566I	-6.77946 + 10.25100I	0
b = -2.01029 - 0.25360I		
u = 0.002030 - 1.272340I		
a = 0.513090 - 0.516566I	-6.77946 - 10.25100I	0
b = -2.01029 + 0.25360I		
u = -0.290112 + 1.251830I		
a = 0.721546 - 0.371631I	-0.46245 - 2.32653I	0
b = -2.33695 - 0.28961I		
u = -0.290112 - 1.251830I		
a = 0.721546 + 0.371631I	-0.46245 + 2.32653I	0
b = -2.33695 + 0.28961I		
u = 0.319419 + 0.638323I		
a = 0.266507 + 0.149010I	1.58623 + 0.62032I	1.131389 - 0.019601I
b = 0.429896 + 0.399818I		
u = 0.319419 - 0.638323I		
a = 0.266507 - 0.149010I	1.58623 - 0.62032I	1.131389 + 0.019601I
b = 0.429896 - 0.399818I		
u = 0.385520 + 0.578821I		
a = 0.497687 - 0.253565I	1.44081 + 0.61682I	4.83546 + 0.93463I
b = 0.308115 + 0.179903I		
u = 0.385520 - 0.578821I		
a = 0.497687 + 0.253565I	1.44081 - 0.61682I	4.83546 - 0.93463I
b = 0.308115 - 0.179903I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.214200 + 0.479278I		
a = -0.030527 + 0.386320I	-0.85536 + 2.82110I	0
b = -0.171089 - 0.244683I		
u = -1.214200 - 0.479278I		
a = -0.030527 - 0.386320I	-0.85536 - 2.82110I	0
b = -0.171089 + 0.244683I		
u = 1.274540 + 0.287916I		
a = -2.15458 + 0.40448I	-6.55815 - 1.94136I	0
b = -2.52672 - 0.90327I		
u = 1.274540 - 0.287916I		
a = -2.15458 - 0.40448I	-6.55815 + 1.94136I	0
b = -2.52672 + 0.90327I		
u = 0.194290 + 0.652674I		
a = 0.004037 - 0.292078I	-5.77638 + 4.37759I	-3.04054 - 1.90544I
b = -1.108940 + 0.699571I		
u = 0.194290 - 0.652674I		
a = 0.004037 + 0.292078I	-5.77638 - 4.37759I	-3.04054 + 1.90544I
b = -1.108940 - 0.699571I		
u = -1.316740 + 0.342524I		
a = 2.22467 + 0.45472I	-3.74572 + 7.98813I	0
b = 2.84462 - 0.86702I		
u = -1.316740 - 0.342524I		
a = 2.22467 - 0.45472I	-3.74572 - 7.98813I	0
b = 2.84462 + 0.86702I		
u = -0.540950 + 0.287850I		
a = 1.59281 - 1.42860I	-8.08495 - 3.80008I	-6.48316 + 2.78169I
b = 1.005260 - 0.506933I		
u = -0.540950 - 0.287850I		
a = 1.59281 + 1.42860I	-8.08495 + 3.80008I	-6.48316 - 2.78169I
b = 1.005260 + 0.506933I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.280390 + 0.542150I		
a = -0.405570 + 0.444554I	-8.14535 - 0.29592I	0
b = -1.39952 + 0.78269I		
u = 1.280390 - 0.542150I		
a = -0.405570 - 0.444554I	-8.14535 + 0.29592I	0
b = -1.39952 - 0.78269I		
u = 1.369510 + 0.269960I		
a = 1.75943 - 0.21348I	-15.0106 - 5.5218I	0
b = 1.79429 + 1.07646I		
u = 1.369510 - 0.269960I		
a = 1.75943 + 0.21348I	-15.0106 + 5.5218I	0
b = 1.79429 - 1.07646I		
u = -1.390460 + 0.141716I		
a = -1.70864 - 0.95421I	-10.89910 - 1.69454I	0
b = -2.53555 - 0.75803I		
u = -1.390460 - 0.141716I		
a = -1.70864 + 0.95421I	-10.89910 + 1.69454I	0
b = -2.53555 + 0.75803I		
u = 1.329630 + 0.472866I		
a = 1.82348 - 0.90583I	-2.19507 - 8.22505I	0
b = 2.91957 + 0.23245I		
u = 1.329630 - 0.472866I		
a = 1.82348 + 0.90583I	-2.19507 + 8.22505I	0
b = 2.91957 - 0.23245I		
u = -1.33351 + 0.50009I		
a = 0.205326 - 0.345072I	-8.32222 + 10.32410I	0
b = 0.181642 + 0.317254I		
u = -1.33351 - 0.50009I		
a = 0.205326 + 0.345072I	-8.32222 - 10.32410I	0
b = 0.181642 - 0.317254I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.097023 + 0.516748I		
a = -1.53614 + 0.33142I	0.63412 - 4.46156I	-3.76825 + 6.77202I
b = 1.267050 + 0.268926I		
u = 0.097023 - 0.516748I		
a = -1.53614 - 0.33142I	0.63412 + 4.46156I	-3.76825 - 6.77202I
b = 1.267050 - 0.268926I		
u = -1.34581 + 0.61160I		
a = -1.62036 - 0.84261I	-4.08423 + 8.86167I	0
b = -2.53126 + 1.02229I		
u = -1.34581 - 0.61160I		
a = -1.62036 + 0.84261I	-4.08423 - 8.86167I	0
b = -2.53126 - 1.02229I		
u = 1.48533 + 0.07762I		
a = -1.79656 + 0.60283I	-8.62358 + 1.01784I	0
b = -3.47474 + 0.80956I		
u = 1.48533 - 0.07762I		
a = -1.79656 - 0.60283I	-8.62358 - 1.01784I	0
b = -3.47474 - 0.80956I		
u = 1.41487 + 0.58489I		
a = -1.63665 + 0.81194I	-11.2576 - 16.6985I	0
b = -2.79765 - 0.68796I		
u = 1.41487 - 0.58489I		
a = -1.63665 - 0.81194I	-11.2576 + 16.6985I	0
b = -2.79765 + 0.68796I		
u = -0.386897 + 0.249171I		
a = 2.06957 - 0.41148I	-3.14659 + 1.15669I	0.68364 - 1.66386I
b = -0.267376 + 0.524327I		
u = -0.386897 - 0.249171I		
a = 2.06957 + 0.41148I	-3.14659 - 1.15669I	0.68364 + 1.66386I
b = -0.267376 - 0.524327I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.30406 + 0.82899I		
a = 1.05664 + 1.05525I	-10.94130 + 5.20376I	0
b = 2.16979 - 0.68015I		
u = -1.30406 - 0.82899I		
a = 1.05664 - 1.05525I	-10.94130 - 5.20376I	0
b = 2.16979 + 0.68015I		
u = -0.420966 + 0.043691I		
a = 1.177750 - 0.720907I	-1.261910 + 0.263190I	-8.70761 + 0.23744I
b = -0.633678 + 0.044005I		
u = -0.420966 - 0.043691I		
a = 1.177750 + 0.720907I	-1.261910 - 0.263190I	-8.70761 - 0.23744I
b = -0.633678 - 0.044005I		
u = -1.65030 + 0.51603I		
a = -1.148450 - 0.155755I	-12.01700 - 3.30289I	0
b = -1.90968 + 1.96171I		
u = -1.65030 - 0.51603I		
a = -1.148450 + 0.155755I	-12.01700 + 3.30289I	0
b = -1.90968 - 1.96171I		

II.
$$I_2^u = \langle 2.49 \times 10^8 u^{22} + 2.08 \times 10^8 u^{21} + \dots + 7.95 \times 10^7 b - 1.35 \times 10^9, \ 4.10 \times 10^8 u^{22} + 3.48 \times 10^8 u^{21} + \dots + 7.95 \times 10^7 a - 2.19 \times 10^9, \ u^{23} + 2u^{22} + \dots - 8u - 8 \rangle$$

(i) Arc colorings

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -5.15959u^{22} - 4.37544u^{21} + \dots + 13.1329u + 27.5097 \\ -3.12825u^{22} - 2.62000u^{21} + \dots + 7.89685u + 16.9681 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 5.96267u^{22} + 5.49417u^{21} + \dots - 13.9666u - 37.3530 \\ 3.71013u^{22} + 4.51949u^{21} + \dots - 2.41295u - 30.8696 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.180806u^{22} + 1.09306u^{21} + \dots + 4.41132u - 6.09049 \\ 2.40989u^{22} + 2.40623u^{21} + \dots - 5.49037u - 16.5146 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 2.25254u^{22} + 0.974685u^{21} + \dots - 11.5536u - 6.48339 \\ 3.71013u^{22} + 4.51949u^{21} + \dots - 2.41295u - 30.8696 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u \\ -3.71013u^{22} - 4.51949u^{21} + \dots + 2.41295u + 30.8696 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -3.86653u^{22} - 5.39577u^{21} + \dots - 1.15260u + 30.2425 \\ 1.89779u^{22} + 2.79821u^{21} + \dots + 0.830807u - 20.7597 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -2.71997u^{22} - 3.16714u^{21} + \dots + 3.22271u + 23.5905 \\ 5.45629u^{22} + 4.93488u^{21} + \dots - 15.1772u - 33.8649 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 4.16367u^{22} + 3.18690u^{21} + \dots - 13.2821u - 21.7105 \\ 2.88236u^{22} + 4.09623u^{21} + \dots + 1.72423u - 28.5228 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{5516374159}{636344672}u^{22} + \frac{9107813537}{636344672}u^{21} + \dots + \frac{301737269}{39771542}u - \frac{9773924821}{79543084}u^{21} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$4(4u^{23} - 65u^{22} + \dots + 15u - 1)$
c_2	$2(2u^{23} + u^{22} + \dots - 3u + 1)$
c_3	$u^{23} + 6u^{22} + \dots + 17u + 1$
c_4	$u^{23} + 3u^{21} + \dots + 33u + 14$
<i>C</i> ₅	$u^{23} + 2u^{22} + \dots - 8u - 8$
	$2(2u^{23} - u^{22} + \dots - 3u - 1)$
c_7	$u^{23} + 2u^{22} + \dots - u - 4$
<i>c</i> ₈	$u^{23} - 3u^{22} + \dots + 40u - 16$
<i>c</i> ₉	$2(2u^{23} - 3u^{22} + \dots - 8u - 8)$
c_{10}	$4(4u^{23} - 41u^{22} + \dots + 5u - 1)$
c_{11}	$u^{23} - 2u^{22} + \dots - 8u + 8$
c_{12}	$2(2u^{23} + u^{22} + \dots - u + 1)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$16(16y^{23} - 321y^{22} + \dots - 13y - 1)$
c_{2}, c_{6}	$4(4y^{23} - 65y^{22} + \dots + 15y - 1)$
<i>c</i> ₃	$y^{23} - 22y^{22} + \dots - 11y - 1$
c_4	$y^{23} + 6y^{22} + \dots + 1061y - 196$
c_5,c_{11}	$y^{23} - 14y^{22} + \dots + 256y - 64$
	$y^{23} + 2y^{22} + \dots + 73y - 16$
<i>c</i> ₈	$y^{23} + 23y^{22} + \dots + 6080y - 256$
<i>c</i> ₉	$4(4y^{23} + 51y^{22} + \dots + 384y - 64)$
c_{10}	$16(16y^{23} - 297y^{22} + \dots - 3y - 1)$
c_{12}	$4(4y^{23} + 31y^{22} + \dots + 13y - 1)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.356302 + 0.921246I		
a = -0.426449 - 0.898055I	2.07565 + 3.56521I	0.83283 - 7.40934I
b = 1.81269 - 0.26418I		
u = 0.356302 - 0.921246I		
a = -0.426449 + 0.898055I	2.07565 - 3.56521I	0.83283 + 7.40934I
b = 1.81269 + 0.26418I		
u = -0.659298 + 0.709797I		
a = 0.183477 + 0.380951I	0.91405 - 1.41548I	-1.11361 + 5.21408I
b = -0.351559 - 0.549190I		
u = -0.659298 - 0.709797I		
a = 0.183477 - 0.380951I	0.91405 + 1.41548I	-1.11361 - 5.21408I
b = -0.351559 + 0.549190I		
u = 1.04960		
a = -2.61659	-3.12449	-70.7810
b = -0.614702		
u = -0.974176 + 0.395630I		
a = 1.57498 + 1.75261I	-8.68718 + 5.83308I	-5.34407 - 4.88575I
b = 1.40615 + 0.67428I		
u = -0.974176 - 0.395630I		
a = 1.57498 - 1.75261I	-8.68718 - 5.83308I	-5.34407 + 4.88575I
b = 1.40615 - 0.67428I		
u = -0.969026 + 0.417007I		
a = -0.357355 - 0.102308I	0.08939 + 5.69307I	0.41476 - 11.59398I
b = 0.217924 - 0.434540I		
u = -0.969026 - 0.417007I		
a = -0.357355 + 0.102308I	0.08939 - 5.69307I	0.41476 + 11.59398I
b = 0.217924 + 0.434540I		
u = -0.446659 + 0.962675I		
a = -0.182179 - 0.915290I	2.40763 + 1.37050I	-0.171489 + 1.394959I
b = 0.156899 + 0.194953I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.446659 - 0.962675I		
a = -0.182179 + 0.915290I	2.40763 - 1.37050I	-0.171489 - 1.394959I
b = 0.156899 - 0.194953I		
u = 0.235891 + 0.795309I		
a = 0.720914 - 0.951185I	-0.059835 - 1.122220I	-4.89482 + 1.47895I
b = -0.991580 + 0.519972I		
u = 0.235891 - 0.795309I		
a = 0.720914 + 0.951185I	-0.059835 + 1.122220I	-4.89482 - 1.47895I
b = -0.991580 - 0.519972I		
u = 0.728014 + 0.278875I		
a = -2.47522 + 1.35985I	-5.70885 - 2.28203I	-0.70922 + 2.28852I
b = -2.16573 - 0.15001I		
u = 0.728014 - 0.278875I		
a = -2.47522 - 1.35985I	-5.70885 + 2.28203I	-0.70922 - 2.28852I
b = -2.16573 + 0.15001I		
u = -1.184950 + 0.568415I		
a = 0.040381 + 0.403877I	-0.10085 + 4.15383I	-1.76815 - 1.34475I
b = -0.070996 - 0.158742I		
u = -1.184950 - 0.568415I		
a = 0.040381 - 0.403877I	-0.10085 - 4.15383I	-1.76815 + 1.34475I
b = -0.070996 + 0.158742I		
u = 1.319470 + 0.481768I		
a = 1.90814 - 0.84640I	-1.35982 - 8.75350I	-1.07603 + 8.75787I
b = 2.92161 + 0.56057I		
u = 1.319470 - 0.481768I		
a = 1.90814 + 0.84640I	-1.35982 + 8.75350I	-1.07603 - 8.75787I
b = 2.92161 - 0.56057I		
u = -1.383620 + 0.262159I		
a = -1.090950 - 0.766666I	-10.42060 - 2.61211I	-7.27563 + 4.52171I
b = -1.47323 - 0.28646I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.383620 - 0.262159I		
a = -1.090950 + 0.766666I	-10.42060 + 2.61211I	-7.27563 - 4.52171I
b = -1.47323 + 0.28646I		
u = 1.45325 + 0.11507I		
a = -2.33744 - 0.07338I	-8.84112 + 0.24124I	-10.76982 + 2.03355I
b = -4.15483 - 0.72662I		
u = 1.45325 - 0.11507I		
a = -2.33744 + 0.07338I	-8.84112 - 0.24124I	-10.76982 - 2.03355I
b = -4.15483 + 0.72662I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$16(4u^{23} - 65u^{22} + \dots + 15u - 1)(4u^{76} + 181u^{75} + \dots + 50u + 1)$
c_2	$4(2u^{23} + u^{22} + \dots - 3u + 1)(2u^{76} - u^{75} + \dots - 2u + 1)$
c_3	$(u^{23} + 6u^{22} + \dots + 17u + 1)(u^{76} - 7u^{75} + \dots + 842u + 773)$
c_4	$ (u^{23} + 3u^{21} + \dots + 33u + 14)(u^{76} + u^{75} + \dots + 137983u + 158846) $
<i>C</i> ₅	$(u^{23} + 2u^{22} + \dots - 8u - 8)(u^{76} - 3u^{75} + \dots + 936u + 232)$
<i>C</i> ₆	$4(2u^{23} - u^{22} + \dots - 3u - 1)(2u^{76} - u^{75} + \dots - 2u + 1)$
	$(u^{23} + 2u^{22} + \dots - u - 4)(u^{76} - 5u^{75} + \dots - 19313u + 1532)$
c_8	$(u^{23} - 3u^{22} + \dots + 40u - 16)$ $\cdot (u^{76} - 4u^{75} + \dots + 20080608u + 2598032)$
c_9	$4(2u^{23} - 3u^{22} + \dots - 8u - 8)(2u^{76} + u^{75} + \dots + 296u + 712)$
c_{10}	$16(4u^{23} - 41u^{22} + \dots + 5u - 1)(4u^{76} + 27u^{75} + \dots + 3218u + 419)$
c_{11}	$(u^{23} - 2u^{22} + \dots - 8u + 8)(u^{76} - 3u^{75} + \dots + 936u + 232)$
c_{12}	$4(2u^{23} + u^{22} + \dots - u + 1)(2u^{76} + 7u^{75} + \dots + 11068u + 1009)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$256(16y^{23} - 321y^{22} + \dots - 13y - 1)(16y^{76} + 15y^{75} + \dots - 166y + 1)$
c_{2}, c_{6}	$16(4y^{23} - 65y^{22} + \dots + 15y - 1)(4y^{76} - 181y^{75} + \dots - 50y + 1)$
c_3	$(y^{23} - 22y^{22} + \dots - 11y - 1)$ $\cdot (y^{76} - 107y^{75} + \dots - 13723192y + 597529)$
c_4	$(y^{23} + 6y^{22} + \dots + 1061y - 196)$ $\cdot (y^{76} + 33y^{75} + \dots + 325811545407y + 25232051716)$
c_5, c_{11}	$(y^{23} - 14y^{22} + \dots + 256y - 64)$ $\cdot (y^{76} - 51y^{75} + \dots - 1128512y + 53824)$
c_7	$(y^{23} + 2y^{22} + \dots + 73y - 16)$ $\cdot (y^{76} - 11y^{75} + \dots - 47423585y + 2347024)$
c_8	$(y^{23} + 23y^{22} + \dots + 6080y - 256)$ $\cdot (y^{76} + 62y^{75} + \dots + 198572181119104y + 6749770273024)$
c_9	$16(4y^{23} + 51y^{22} + \dots + 384y - 64)$ $\cdot (4y^{76} + 367y^{75} + \dots + 37802176y + 506944)$
c_{10}	$256(16y^{23} - 297y^{22} + \dots - 3y - 1)$ $\cdot (16y^{76} + 487y^{75} + \dots + 8708976y + 175561)$
c_{12}	$16(4y^{23} + 31y^{22} + \dots + 13y - 1)$ $\cdot (4y^{76} + 331y^{75} + \dots + 210844724y + 1018081)$