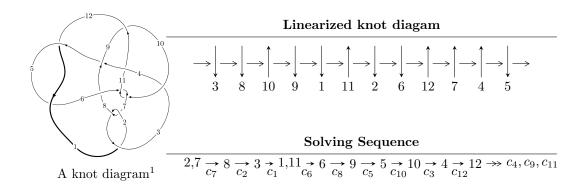
$12a_{0754} (K12a_{0754})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -4.46501 \times 10^{559} u^{176} - 3.76087 \times 10^{559} u^{175} + \dots + 3.16375 \times 10^{560} b - 5.29003 \times 10^{561}, \\ &- 1.55061 \times 10^{560} u^{176} - 1.24993 \times 10^{560} u^{175} + \dots + 6.89926 \times 10^{560} a - 2.74571 \times 10^{562}, \\ &u^{177} + u^{176} + \dots - 113u + 181 \rangle \\ I_2^u &= \langle 77050238748 u^{45} - 49060443352 u^{44} + \dots + 31929802369 b - 481900138262, \\ &- 331992933622 u^{45} - 546861658639 u^{44} + \dots + 31929802369 a + 478475058213, \\ &u^{46} - 14 u^{44} + \dots + 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 223 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.
$$I_1^u = \langle -4.47 \times 10^{559} u^{176} - 3.76 \times 10^{559} u^{175} + \dots + 3.16 \times 10^{560} b - 5.29 \times 10^{561}, \ -1.55 \times 10^{560} u^{176} - 1.25 \times 10^{560} u^{175} + \dots + 6.90 \times 10^{560} a - 2.75 \times 10^{562}, \ u^{177} + u^{176} + \dots - 113 u + 181 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} 0.224751u^{176} + 0.181169u^{175} + \cdots - 91.7426u + 39.7972 \\ 0.141130u^{176} + 0.118874u^{175} + \cdots - 50.5273u + 16.7208 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0966568u^{176} + 0.154708u^{175} + \cdots + 73.3219u - 43.4893 \\ 0.0682880u^{176} + 0.0385578u^{175} + \cdots + 40.6569u - 20.0654 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.110994u^{176} + 0.0695990u^{175} + \cdots - 132.292u + 49.7926 \\ 0.0211045u^{176} - 0.0878728u^{175} + \cdots + 73.3585u + 41.7302 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -0.00914328u^{176} + 0.00801270u^{175} + \cdots + 86.7261u - 33.6343 \\ 0.0205661u^{176} - 0.0320211u^{175} + \cdots + 30.3503u - 4.79365 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0836203u^{176} + 0.0622956u^{175} + \cdots - 41.2152u + 23.0764 \\ 0.141130u^{176} + 0.118874u^{175} + \cdots - 50.5273u + 16.7208 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0277595u^{176} + 0.180289u^{175} + \cdots - 6.60090u - 14.9261 \\ -0.0125667u^{176} + 0.0103138u^{175} + \cdots - 29.9452u + 3.75498 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0206965u^{176} - 0.105243u^{175} + \cdots + 42.4728u + 20.1661 \\ 0.121159u^{176} + 0.164325u^{175} + \cdots + 41.5812u - 26.0587 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.724599u^{176} + 1.40135u^{175} + \cdots 17.4844u 116.459$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{177} + 89u^{176} + \dots + 1149811u + 32761$
c_{2}, c_{7}	$u^{177} + u^{176} + \dots - 113u + 181$
<i>c</i> ₃	$u^{177} + 16u^{175} + \dots + 2770141136u + 148430897$
c_4	$u^{177} + 2u^{176} + \dots - 118u - 47$
c_5,c_{12}	$u^{177} - 68u^{175} + \dots - 8904u + 467$
c_6, c_{10}	$u^{177} + 51u^{175} + \dots + 1008921u + 96053$
c ₈	$u^{177} - 10u^{176} + \dots + 224156u + 83191$
<i>c</i> 9	$u^{177} + 13u^{176} + \dots - 3396057u - 216341$
c_{11}	$u^{177} - 4u^{176} + \dots - 500u + 41$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{177} + 15y^{176} + \dots + 55508891787y - 1073283121$
c_{2}, c_{7}	$y^{177} - 89y^{176} + \dots + 1149811y - 32761$
<i>c</i> ₃	$y^{177} + 32y^{176} + \dots - 268829528448372104y - 22031731184224609$
c_4	$y^{177} - 32y^{176} + \dots + 102002y - 2209$
c_5, c_{12}	$y^{177} - 136y^{176} + \dots - 143543164y - 218089$
c_6, c_{10}	$y^{177} + 102y^{176} + \dots - 436351764825y - 9226178809$
c_8	$y^{177} - 30y^{176} + \dots + 663714149210y - 6920742481$
c_9	$y^{177} + 43y^{176} + \dots - 5046528559981y - 46803428281$
c_{11}	$y^{177} - 14y^{176} + \dots + 185384y - 1681$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.974325 + 0.222085I		
a = 0.81562 + 2.35721I	-6.50033 - 2.27440I	0
b = -0.09517 + 1.55029I		
u = 0.974325 - 0.222085I		
a = 0.81562 - 2.35721I	-6.50033 + 2.27440I	0
b = -0.09517 - 1.55029I		
u = 0.995811 + 0.113591I		
a = -0.03619 - 2.56105I	-6.60802 + 1.95285I	0
b = -0.210574 - 1.363500I		
u = 0.995811 - 0.113591I		
a = -0.03619 + 2.56105I	-6.60802 - 1.95285I	0
b = -0.210574 + 1.363500I		
u = 0.891267 + 0.464106I		
a = -1.80760 - 1.69279I	0.290980 + 0.835797I	0
b = 0.148991 - 0.762299I		
u = 0.891267 - 0.464106I		
a = -1.80760 + 1.69279I	0.290980 - 0.835797I	0
b = 0.148991 + 0.762299I		
u = 0.932751 + 0.374408I		
a = 0.347062 - 0.824795I	0.20430 + 1.61888I	0
b = 1.238490 + 0.232968I		
u = 0.932751 - 0.374408I		
a = 0.347062 + 0.824795I	0.20430 - 1.61888I	0
b = 1.238490 - 0.232968I		
u = 0.249112 + 0.975833I		
a = 0.059917 - 0.579235I	-5.10078 + 5.95524I	0
b = -0.401271 - 1.184370I		
u = 0.249112 - 0.975833I		
a = 0.059917 + 0.579235I	-5.10078 - 5.95524I	0
b = -0.401271 + 1.184370I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.659460 + 0.739964I		
a = 0.265306 - 0.602206I	0.50499 - 5.98199I	0
b = -0.602881 - 0.581728I		
u = 0.659460 - 0.739964I		
a = 0.265306 + 0.602206I	0.50499 + 5.98199I	0
b = -0.602881 + 0.581728I		
u = -0.960156 + 0.320973I		
a = -2.51324 + 3.47680I	-4.97745 - 3.70596I	0
b = 0.036699 + 0.860470I		
u = -0.960156 - 0.320973I		
a = -2.51324 - 3.47680I	-4.97745 + 3.70596I	0
b = 0.036699 - 0.860470I		
u = -0.327466 + 0.959605I		
a = 0.373522 + 0.507460I	-3.9652 - 14.7921I	0
b = -0.623318 + 1.250290I		
u = -0.327466 - 0.959605I		
a = 0.373522 - 0.507460I	-3.9652 + 14.7921I	0
b = -0.623318 - 1.250290I		
u = 0.873905 + 0.453283I		
a = 0.18625 + 1.54037I	0.24529 - 4.90883I	0
b = -1.080860 + 0.499009I		
u = 0.873905 - 0.453283I		
a = 0.18625 - 1.54037I	0.24529 + 4.90883I	0
b = -1.080860 - 0.499009I		
u = 0.407136 + 0.876029I		
a = 0.228493 - 0.230111I	0.65768 + 8.86127I	0
b = -0.625577 - 1.213760I		
u = 0.407136 - 0.876029I		
a = 0.228493 + 0.230111I	0.65768 - 8.86127I	0
b = -0.625577 + 1.213760I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.929681 + 0.252073I		
a = 1.98508 - 1.54026I	-4.69188 + 6.03218I	0
b = -0.101282 + 0.438544I		
u = -0.929681 - 0.252073I		
a = 1.98508 + 1.54026I	-4.69188 - 6.03218I	0
b = -0.101282 - 0.438544I		
u = -0.891310 + 0.531806I		
a = -0.659025 + 0.106796I	-0.962538 + 0.626000I	0
b = -0.613693 + 0.630340I		
u = -0.891310 - 0.531806I		
a = -0.659025 - 0.106796I	-0.962538 - 0.626000I	0
b = -0.613693 - 0.630340I		
u = -0.484590 + 0.828041I		
a = -0.455710 - 0.186890I	-1.27015 - 3.46858I	0
b = 0.390296 - 1.060170I		
u = -0.484590 - 0.828041I		
a = -0.455710 + 0.186890I	-1.27015 + 3.46858I	0
b = 0.390296 + 1.060170I		
u = 0.981309 + 0.356252I		
a = -0.0327071 - 0.1150610I	-4.80627 + 0.53223I	0
b = 0.825548 + 0.833562I		
u = 0.981309 - 0.356252I		
a = -0.0327071 + 0.1150610I	-4.80627 - 0.53223I	0
b = 0.825548 - 0.833562I		
u = 0.801643 + 0.676667I		
a = -0.535505 - 0.017695I	3.06544 - 2.33212I	0
b = 0.469122 - 0.536520I		
u = 0.801643 - 0.676667I		
a = -0.535505 + 0.017695I	3.06544 + 2.33212I	0
b = 0.469122 + 0.536520I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.997233 + 0.341494I		
a = 1.00789 + 1.50673I	-7.10045 + 0.18077I	0
b = 0.56095 + 1.59851I		
u = 0.997233 - 0.341494I		
a = 1.00789 - 1.50673I	-7.10045 - 0.18077I	0
b = 0.56095 - 1.59851I		
u = -0.425461 + 0.839516I		
a = -0.655201 + 0.424317I	-1.55079 - 0.51771I	0
b = 0.541164 + 0.346849I		
u = -0.425461 - 0.839516I		
a = -0.655201 - 0.424317I	-1.55079 + 0.51771I	0
b = 0.541164 - 0.346849I		
u = -0.672996 + 0.819837I		
a = -0.809570 - 0.195709I	-0.20302 - 1.64601I	0
b = 0.293941 + 0.657252I		
u = -0.672996 - 0.819837I		
a = -0.809570 + 0.195709I	-0.20302 + 1.64601I	0
b = 0.293941 - 0.657252I		
u = -0.936300		
a = -1.21722	-2.21006	0
b = -0.597295		
u = 0.546028 + 0.739177I		
a = -0.91845 + 1.25629I	-1.28885 + 4.62079I	0
b = 0.353663 + 0.981728I		
u = 0.546028 - 0.739177I		
a = -0.91845 - 1.25629I	-1.28885 - 4.62079I	0
b = 0.353663 - 0.981728I		
u = -0.652726 + 0.646500I		
a = -0.619657 + 0.655257I	-0.26043 + 4.06910I	0
b = 0.623344 + 0.968272I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.652726 - 0.646500I		
a = -0.619657 - 0.655257I	-0.26043 - 4.06910I	0
b = 0.623344 - 0.968272I		
u = 0.865311 + 0.268129I		
a = 1.34391 + 3.02315I	-4.20869 - 3.12674I	0
b = -0.518492 + 1.045400I		
u = 0.865311 - 0.268129I		
a = 1.34391 - 3.02315I	-4.20869 + 3.12674I	0
b = -0.518492 - 1.045400I		
u = 0.019928 + 0.897306I		
a = -1.023540 - 0.325536I	-4.15749 - 1.66209I	0
b = 0.438641 - 0.962197I		
u = 0.019928 - 0.897306I		
a = -1.023540 + 0.325536I	-4.15749 + 1.66209I	0
b = 0.438641 + 0.962197I		
u = 0.984173 + 0.497443I		
a = 0.525993 + 0.587716I	-0.21065 - 4.60175I	0
b = -0.548453 - 0.164878I		
u = 0.984173 - 0.497443I		
a = 0.525993 - 0.587716I	-0.21065 + 4.60175I	0
b = -0.548453 + 0.164878I		
u = 0.870051 + 0.679152I		
a = -0.313124 + 0.500964I	2.87655 - 2.88564I	0
b = -0.323064 - 0.402527I		
u = 0.870051 - 0.679152I		
a = -0.313124 - 0.500964I	2.87655 + 2.88564I	0
b = -0.323064 + 0.402527I		
u = -1.023420 + 0.414546I		
a = -0.59669 + 2.65233I	-8.30031 - 2.14999I	0
b = -0.25466 + 1.43283I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.023420 - 0.414546I		
a = -0.59669 - 2.65233I	-8.30031 + 2.14999I	0
b = -0.25466 - 1.43283I		
u = -1.003530 + 0.468682I		
a = -1.007460 - 0.720630I	0.280054 + 0.456269I	0
b = -1.249210 + 0.598406I		
u = -1.003530 - 0.468682I		
a = -1.007460 + 0.720630I	0.280054 - 0.456269I	0
b = -1.249210 - 0.598406I		
u = -0.982907 + 0.512624I		
a = 1.30656 - 2.51647I	0.86960 + 5.99499I	0
b = -0.358370 - 1.078470I		
u = -0.982907 - 0.512624I		
a = 1.30656 + 2.51647I	0.86960 - 5.99499I	0
b = -0.358370 + 1.078470I		
u = 0.664022 + 0.902110I		
a = 0.268917 + 0.282201I	2.10337 - 4.61954I	0
b = -0.314378 + 0.879919I		
u = 0.664022 - 0.902110I		
a = 0.268917 - 0.282201I	2.10337 + 4.61954I	0
b = -0.314378 - 0.879919I		
u = 0.352863 + 1.065400I		
a = -0.443332 + 0.605358I	-3.61595 + 4.69476I	0
b = 0.486671 + 1.071910I		
u = 0.352863 - 1.065400I		
a = -0.443332 - 0.605358I	-3.61595 - 4.69476I	0
b = 0.486671 - 1.071910I		
u = 0.367583 + 0.796928I		
a = 0.589023 + 0.487069I	-0.95048 + 8.79821I	0
b = -1.048850 + 0.291504I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.367583 - 0.796928I		
a = 0.589023 - 0.487069I	-0.95048 - 8.79821I	0
b = -1.048850 - 0.291504I		
u = 1.123410 + 0.148227I		
a = 0.147814 + 0.129479I	-6.76781 - 1.75341I	0
b = -0.463378 - 0.322398I		
u = 1.123410 - 0.148227I		
a = 0.147814 - 0.129479I	-6.76781 + 1.75341I	0
b = -0.463378 + 0.322398I		
u = 0.861289 + 0.741903I		
a = -0.87342 - 1.18739I	-0.091216 + 0.552522I	0
b = 0.441231 - 0.715211I		
u = 0.861289 - 0.741903I		
a = -0.87342 + 1.18739I	-0.091216 - 0.552522I	0
b = 0.441231 + 0.715211I		
u = 1.086500 + 0.349977I		
a = 0.21485 - 2.17760I	-8.19104 - 3.38162I	0
b = 0.020473 - 1.231930I		
u = 1.086500 - 0.349977I		
a = 0.21485 + 2.17760I	-8.19104 + 3.38162I	0
b = 0.020473 + 1.231930I		
u = 1.027750 + 0.501132I		
a = 2.55206 + 1.43844I	-7.70017 - 8.42877I	0
b = -0.338256 + 1.215810I		
u = 1.027750 - 0.501132I		
a = 2.55206 - 1.43844I	-7.70017 + 8.42877I	0
b = -0.338256 - 1.215810I		
u = 1.012670 + 0.531949I		
a = -0.213014 + 1.212140I	0.56443 - 5.15617I	0
b = -1.113660 + 0.102945I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.012670 - 0.531949I		
a = -0.213014 - 1.212140I	0.56443 + 5.15617I	0
b = -1.113660 - 0.102945I		
u = -1.135000 + 0.178422I		
a = 0.406463 + 0.890434I	-5.88446 - 6.20711I	0
b = 0.901111 - 0.067709I		
u = -1.135000 - 0.178422I		
a = 0.406463 - 0.890434I	-5.88446 + 6.20711I	0
b = 0.901111 + 0.067709I		
u = -1.115390 + 0.308103I		
a = -0.91644 + 1.59936I	-3.51682 - 0.04625I	0
b = -0.400309 + 1.255670I		
u = -1.115390 - 0.308103I		
a = -0.91644 - 1.59936I	-3.51682 + 0.04625I	0
b = -0.400309 - 1.255670I		
u = 1.138060 + 0.232237I		
a = -0.93177 - 2.34296I	-6.43755 + 3.41743I	0
b = -0.365094 - 1.318450I		
u = 1.138060 - 0.232237I		
a = -0.93177 + 2.34296I	-6.43755 - 3.41743I	0
b = -0.365094 + 1.318450I		
u = -0.330093 + 0.769389I		
a = -0.390812 - 0.649588I	-1.84585 - 6.20965I	0
b = 0.57301 - 1.31805I		
u = -0.330093 - 0.769389I		
a = -0.390812 + 0.649588I	-1.84585 + 6.20965I	0
b = 0.57301 + 1.31805I		
u = -0.390387 + 0.731665I		
a = -0.0947310 + 0.0770864I	-2.02526 + 0.37726I	0
b = -0.311756 + 1.136680I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.390387 - 0.731665I		
a = -0.0947310 - 0.0770864I	-2.02526 - 0.37726I	0
b = -0.311756 - 1.136680I		
u = -1.039380 + 0.546545I		
a = 0.498307 + 0.650794I	1.66142 + 7.48678I	0
b = 1.293830 - 0.347290I		
u = -1.039380 - 0.546545I		
a = 0.498307 - 0.650794I	1.66142 - 7.48678I	0
b = 1.293830 + 0.347290I		
u = -0.648891 + 0.507118I		
a = -0.732167 - 0.973907I	1.93320 - 1.79902I	0
b = 0.518833 - 0.948226I		
u = -0.648891 - 0.507118I		
a = -0.732167 + 0.973907I	1.93320 + 1.79902I	0
b = 0.518833 + 0.948226I		
u = 1.104650 + 0.426014I		
a = -1.48771 - 1.81697I	-9.81624 + 0.99624I	0
b = 0.462698 - 1.325560I		
u = 1.104650 - 0.426014I		
a = -1.48771 + 1.81697I	-9.81624 - 0.99624I	0
b = 0.462698 + 1.325560I		
u = -1.096900 + 0.446500I		
a = 0.95320 - 1.83733I	-9.69077 + 8.37862I	0
b = 0.25057 - 1.58336I		
u = -1.096900 - 0.446500I		
a = 0.95320 + 1.83733I	-9.69077 - 8.37862I	0
b = 0.25057 + 1.58336I		
u = -1.051180 + 0.550355I		
a = -1.12587 + 1.48729I	-5.57613 + 6.49569I	0
b = 0.88961 + 1.25216I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-5.57613 - 6.49569I	0
-3.27346 + 6.74423I	0
-3.27346 - 6.74423I	0
-0.33983 - 3.80682I	0
-0.33983 + 3.80682I	0
-1.54515 - 2.05417I	0
-1.54515 + 2.05417I	0
-2.85988 - 9.70816I	0
-2.85988 + 9.70816I	0
2.03264 + 0.63861I	0
	-5.57613 - 6.49569I $-3.27346 + 6.74423I$ $-3.27346 - 6.74423I$ $-0.33983 - 3.80682I$ $-0.33983 + 3.80682I$ $-1.54515 - 2.05417I$ $-1.54515 + 2.05417I$ $-2.85988 - 9.70816I$ $-2.85988 + 9.70816I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.504912 - 0.601844I		
a = -0.569631 + 0.252506I	2.03264 - 0.63861I	0
b = 0.925046 + 0.071562I		
u = -0.495482 + 0.608806I		
a = 0.863460 - 1.011800I	3.26580 - 2.89404I	0
b = -1.028980 - 0.423868I		
u = -0.495482 - 0.608806I		
a = 0.863460 + 1.011800I	3.26580 + 2.89404I	0
b = -1.028980 + 0.423868I		
u = -0.488278 + 0.604002I		
a = -0.041005 - 0.887723I	-3.90652 - 1.88381I	0
b = -0.666559 + 1.091920I		
u = -0.488278 - 0.604002I		
a = -0.041005 + 0.887723I	-3.90652 + 1.88381I	0
b = -0.666559 - 1.091920I		
u = -0.858231 + 0.873414I		
a = 0.628898 - 0.604327I	-0.49636 + 10.15920I	0
b = -0.450774 - 0.932398I		
u = -0.858231 - 0.873414I		
a = 0.628898 + 0.604327I	-0.49636 - 10.15920I	0
b = -0.450774 + 0.932398I		
u = -1.108730 + 0.520242I		
a = 1.85998 - 0.96803I	-6.97607 + 3.98114I	0
b = -0.056669 - 0.926003I		
u = -1.108730 - 0.520242I		
a = 1.85998 + 0.96803I	-6.97607 - 3.98114I	0
b = -0.056669 + 0.926003I		
u = -1.006440 + 0.702596I		
a = -0.171521 - 0.425462I	-1.23044 + 7.33913I	0
b = -0.243608 + 0.604162I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.006440 - 0.702596I		
a = -0.171521 + 0.425462I	-1.23044 - 7.33913I	0
b = -0.243608 - 0.604162I		
u = 1.109580 + 0.528391I		
a = 1.06762 + 2.02611I	-2.05189 - 7.59547I	0
b = -0.74657 + 1.25686I		
u = 1.109580 - 0.528391I		
a = 1.06762 - 2.02611I	-2.05189 + 7.59547I	0
b = -0.74657 - 1.25686I		
u = -1.092170 + 0.571577I		
a = -1.15218 + 1.62123I	-4.07554 + 4.57508I	0
b = 0.47571 + 1.36734I		
u = -1.092170 - 0.571577I		
a = -1.15218 - 1.62123I	-4.07554 - 4.57508I	0
b = 0.47571 - 1.36734I		
u = -1.232800 + 0.072488I		
a = 0.49681 - 1.83437I	-5.16632 - 6.17185I	0
b = 0.365136 - 1.277640I		
u = -1.232800 - 0.072488I		
a = 0.49681 + 1.83437I	-5.16632 + 6.17185I	0
b = 0.365136 + 1.277640I		
u = 1.123220 + 0.525229I		
a = -0.940313 - 0.153598I	-1.90407 - 1.49651I	0
b = -0.849477 - 0.529011I		
u = 1.123220 - 0.525229I		
a = -0.940313 + 0.153598I	-1.90407 + 1.49651I	0
b = -0.849477 + 0.529011I		
u = -1.181400 + 0.391639I		
a = 1.08787 - 1.59805I	-8.04591 + 5.92997I	0
b = -0.616078 - 0.970757I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.181400 - 0.391639I		
a = 1.08787 + 1.59805I	-8.04591 - 5.92997I	0
b = -0.616078 + 0.970757I		
u = 1.150320 + 0.481785I		
a = 0.86476 + 1.60291I	-0.76423 - 4.87203I	0
b = -0.307482 + 0.713035I		
u = 1.150320 - 0.481785I		
a = 0.86476 - 1.60291I	-0.76423 + 4.87203I	0
b = -0.307482 - 0.713035I		
u = 1.190060 + 0.392650I		
a = -0.196292 - 1.353840I	-8.00674 - 2.72764I	0
b = -0.323882 - 1.130810I		
u = 1.190060 - 0.392650I		
a = -0.196292 + 1.353840I	-8.00674 + 2.72764I	0
b = -0.323882 + 1.130810I		
u = -0.289758 + 0.686660I		
a = -0.048601 + 1.169220I	2.52438 + 1.38836I	0
b = -0.415124 + 0.681082I		
u = -0.289758 - 0.686660I		
a = -0.048601 - 1.169220I	2.52438 - 1.38836I	0
b = -0.415124 - 0.681082I		
u = -1.129010 + 0.569138I		
a = 1.34235 - 2.26774I	-4.19561 + 11.24720I	0
b = -0.58130 - 1.42417I		
u = -1.129010 - 0.569138I		
a = 1.34235 + 2.26774I	-4.19561 - 11.24720I	0
b = -0.58130 + 1.42417I		
u = -1.101480 + 0.628453I		
a = 1.42731 - 1.47585I	-3.15575 + 8.91297I	0
b = -0.489541 - 1.175260I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.101480 - 0.628453I		
a = 1.42731 + 1.47585I	-3.15575 - 8.91297I	0
b = -0.489541 + 1.175260I		
u = 1.125620 + 0.588687I		
a = 0.500913 - 0.659325I	-3.2014 - 13.9871I	0
b = 1.207430 + 0.247995I		
u = 1.125620 - 0.588687I		
a = 0.500913 + 0.659325I	-3.2014 + 13.9871I	0
b = 1.207430 - 0.247995I		
u = -1.143270 + 0.562048I		
a = -0.65089 + 1.88526I	0.04894 + 3.45668I	0
b = 0.260346 + 0.998301I		
u = -1.143270 - 0.562048I		
a = -0.65089 - 1.88526I	0.04894 - 3.45668I	0
b = 0.260346 - 0.998301I		
u = -1.126510 + 0.610015I		
a = -0.118234 - 0.285480I	-3.69589 + 5.91340I	0
b = -0.792595 + 0.256486I		
u = -1.126510 - 0.610015I		
a = -0.118234 + 0.285480I	-3.69589 - 5.91340I	0
b = -0.792595 - 0.256486I		
u = -0.656573 + 0.282210I		
a = -0.620116 + 0.326275I	-1.177830 + 0.554388I	0
b = -0.347383 + 0.425260I		
u = -0.656573 - 0.282210I		
a = -0.620116 - 0.326275I	-1.177830 - 0.554388I	0
b = -0.347383 - 0.425260I		
u = -0.588577 + 0.394784I		
a = -1.076990 + 0.908184I	1.60264 + 3.32934I	6.18548 + 0.I
b = 1.084690 + 0.721689I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.588577 - 0.394784I		
a = -1.076990 - 0.908184I	1.60264 - 3.32934I	6.18548 + 0.I
b = 1.084690 - 0.721689I		
u = -0.293072 + 0.641560I		
a = -1.120390 + 0.162745I	-4.63986 + 0.55817I	-7.38860 + 0.I
b = -0.159484 - 0.959539I		
u = -0.293072 - 0.641560I		
a = -1.120390 - 0.162745I	-4.63986 - 0.55817I	-7.38860 + 0.I
b = -0.159484 + 0.959539I		
u = -1.222950 + 0.433474I		
a = 0.28423 - 2.07272I	-2.88698 + 6.94632I	0
b = -0.633102 - 0.875296I		
u = -1.222950 - 0.433474I		
a = 0.28423 + 2.07272I	-2.88698 - 6.94632I	0
b = -0.633102 + 0.875296I		
u = 0.566261 + 0.415378I		
a = -1.21392 - 1.40032I	-6.21863 + 4.42335I	-7.46789 - 4.16553I
b = 0.156391 + 1.137680I		
u = 0.566261 - 0.415378I		
a = -1.21392 + 1.40032I	-6.21863 - 4.42335I	-7.46789 + 4.16553I
b = 0.156391 - 1.137680I		
u = 1.137420 + 0.627599I		
a = -1.11869 - 1.75008I	-1.5528 - 14.4058I	0
b = 0.69310 - 1.31971I		
u = 1.137420 - 0.627599I		
a = -1.11869 + 1.75008I	-1.5528 + 14.4058I	0
b = 0.69310 + 1.31971I		
u = 0.255198 + 0.648434I		
a = -0.457656 + 0.115156I	0.32056 + 3.02657I	0 3.29197I
b = 0.665608 + 1.080140I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.255198 - 0.648434I		
a = -0.457656 - 0.115156I	0.32056 - 3.02657I	0. + 3.29197I
b = 0.665608 - 1.080140I		
u = 1.029950 + 0.820102I		
a = 0.554770 + 0.389034I	1.04908 - 1.65636I	0
b = 0.106143 + 0.814593I		
u = 1.029950 - 0.820102I		
a = 0.554770 - 0.389034I	1.04908 + 1.65636I	0
b = 0.106143 - 0.814593I		
u = 0.352816 + 0.565392I		
a = -0.774383 + 0.366800I	1.61658 + 0.72125I	4.21730 + 1.21229I
b = 0.570908 + 0.286454I		
u = 0.352816 - 0.565392I		
a = -0.774383 - 0.366800I	1.61658 - 0.72125I	4.21730 - 1.21229I
b = 0.570908 - 0.286454I		
u = -0.626810 + 0.177672I		
a = 0.47870 + 2.91880I	-6.76022 + 5.20834I	-4.82259 - 5.76207I
b = 0.08431 + 1.44003I		
u = -0.626810 - 0.177672I		
a = 0.47870 - 2.91880I	-6.76022 - 5.20834I	-4.82259 + 5.76207I
b = 0.08431 - 1.44003I		
u = -1.196370 + 0.629202I		
a = -1.12787 + 1.90257I	-6.6187 + 20.5544I	0
b = 0.65973 + 1.32275I		
u = -1.196370 - 0.629202I		
a = -1.12787 - 1.90257I	-6.6187 - 20.5544I	0
b = 0.65973 - 1.32275I		
u = 1.216300 + 0.605604I		
a = -0.90718 - 1.80818I	-8.0436 - 11.6343I	0
b = 0.443883 - 1.322900I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.216300 - 0.605604I		
a = -0.90718 + 1.80818I	-8.0436 + 11.6343I	0
b = 0.443883 + 1.322900I		
u = 1.354970 + 0.189238I		
a = 0.49967 + 1.73518I	-9.7829 + 10.9783I	0
b = 0.472680 + 1.253910I		
u = 1.354970 - 0.189238I		
a = 0.49967 - 1.73518I	-9.7829 - 10.9783I	0
b = 0.472680 - 1.253910I		
u = 0.107722 + 0.611553I		
a = -0.028426 - 0.735003I	0.70511 - 2.94977I	0.77816 + 5.38546I
b = 0.818313 - 0.725481I		
u = 0.107722 - 0.611553I		
a = -0.028426 + 0.735003I	0.70511 + 2.94977I	0.77816 - 5.38546I
b = 0.818313 + 0.725481I		
u = 1.230940 + 0.664853I		
a = 1.07152 + 1.65269I	-6.36772 - 10.89210I	0
b = -0.545595 + 1.159180I		
u = 1.230940 - 0.664853I		
a = 1.07152 - 1.65269I	-6.36772 + 10.89210I	0
b = -0.545595 - 1.159180I		
u = -1.42005 + 0.27195I		
a = 0.50841 - 1.59082I	-10.65500 - 1.52947I	0
b = 0.179495 - 1.147660I		
u = -1.42005 - 0.27195I		
a = 0.50841 + 1.59082I	-10.65500 + 1.52947I	0
b = 0.179495 + 1.147660I		
u = 0.007192 + 0.508226I		
a = 1.48448 + 0.16026I	-6.97969 - 4.66343I	-6.67994 + 4.47542I
b = -0.172573 - 1.339150I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.007192 - 0.508226I		
a = 1.48448 - 0.16026I	-6.97969 + 4.66343I	-6.67994 - 4.47542I
b = -0.172573 + 1.339150I		
u = -1.48292 + 0.18695I		
a = -0.15328 + 1.62185I	-10.10840 - 0.30685I	0
b = -0.297661 + 1.043810I		
u = -1.48292 - 0.18695I		
a = -0.15328 - 1.62185I	-10.10840 + 0.30685I	0
b = -0.297661 - 1.043810I		
u = 1.53362 + 0.04871I		
a = 0.07298 - 1.45600I	-8.91789 + 1.28366I	0
b = -0.080460 - 0.876805I		
u = 1.53362 - 0.04871I		
a = 0.07298 + 1.45600I	-8.91789 - 1.28366I	0
b = -0.080460 + 0.876805I		
u = 0.353993 + 0.091545I		
a = 0.576585 + 0.325449I	0.89957 - 2.81238I	-4.80695 + 6.22775I
b = 0.777233 - 0.742897I		
u = 0.353993 - 0.091545I		
a = 0.576585 - 0.325449I	0.89957 + 2.81238I	-4.80695 - 6.22775I
b = 0.777233 + 0.742897I		

$$\begin{array}{l} \text{II. } I_2^u = \langle 7.71 \times 10^{10} u^{45} - 4.91 \times 10^{10} u^{44} + \cdots + 3.19 \times 10^{10} b - 4.82 \times \\ 10^{11}, \ -3.32 \times 10^{11} u^{45} - 5.47 \times 10^{11} u^{44} + \cdots + 3.19 \times 10^{10} a + 4.78 \times \\ 10^{11}, \ u^{46} - 14 u^{44} + \cdots + 3 u + 1 \rangle \end{array}$$

(i) Arc colorings

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^3 \\ u^5 - u^3 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 10.3976u^{45} + 17.1270u^{44} + \dots - 50.0506u - 14.9852 \\ -2.41311u^{45} + 1.53651u^{44} + \dots + 59.7551u + 15.0925 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 17.5615u^{45} + 18.0553u^{44} + \dots - 145.343u - 43.4124 \\ 17.5615u^{45} + 18.0553u^{44} + \dots - 107.919u - 29.7649 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -4.18561u^{45} - 29.3387u^{44} + \dots - 71.3477u - 11.7973 \\ 10.8236u^{45} - 1.23253u^{44} + \dots - 34.6891u - 9.05060 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 15.1278u^{45} + 38.0763u^{44} + \dots - 65.2261u - 25.2324 \\ 1.25081u^{45} + 9.13970u^{44} + \dots - 56.0878u - 16.6770 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 12.8107u^{45} + 15.5905u^{44} + \dots - 109.806u - 30.0777 \\ -2.41311u^{45} + 1.53651u^{44} + \dots + 59.7551u + 15.0925 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 56.1218u^{45} + 33.8772u^{44} + \dots - 294.780u - 73.6228 \\ 20.4014u^{45} + 12.0171u^{44} + \dots - 24.1839u - 3.82965 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -6.58372u^{45} - 11.4548u^{44} + \dots + 99.8440u + 25.0471 \\ -27.9650u^{45} - 35.3715u^{44} + \dots + 99.88917u + 27.0793 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$=\frac{89030218431}{31929802369}u^{45} + \frac{970483410583}{31929802369}u^{44} + \dots + \frac{11015325856943}{31929802369}u + \frac{2629114158335}{31929802369}u^{44} + \dots + \frac{11015325856943}{31929802369}u + \frac{2629114158335}{31929802369}u^{44} + \dots + \frac{11015325856943}{31929802369}u^{44} + \dots + \frac{1101532586943}{31929802369}u^{44} + \dots + \frac{11015325856945}{31929802369}u^{44} + \dots + \frac{1101532$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{46} - 28u^{45} + \dots - 17u + 1$
c_2	$u^{46} - 14u^{44} + \dots - 3u + 1$
c_3	$u^{46} + u^{45} + \dots + 132u + 11$
c_4	$u^{46} + u^{45} + \dots + 4u + 1$
c_5	$u^{46} - u^{45} + \dots + 18u + 1$
<i>c</i> ₆	$u^{46} - u^{45} + \dots + 3u + 1$
c_7	$u^{46} - 14u^{44} + \dots + 3u + 1$
c_8	$u^{46} + 3u^{45} + \dots + 12u + 1$
c_9	$u^{46} + 4u^{45} + \dots - u + 1$
c_{10}	$u^{46} + u^{45} + \dots - 3u + 1$
c_{11}	$u^{46} - u^{45} + \dots - 2u + 1$
c_{12}	$u^{46} + u^{45} + \dots - 18u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{46} - 4y^{45} + \dots + 47y + 1$
c_2, c_7	$y^{46} - 28y^{45} + \dots - 17y + 1$
c_3	$y^{46} - 7y^{45} + \dots - 10582y + 121$
c_4	$y^{46} - 19y^{45} + \dots + 4y + 1$
c_5, c_{12}	$y^{46} - 43y^{45} + \dots - 98y + 1$
c_6, c_{10}	$y^{46} + 27y^{45} + \dots + 35y + 1$
c_8	$y^{46} - 21y^{45} + \dots + 68y + 1$
<i>c</i> 9	$y^{46} + 12y^{45} + \dots + 23y + 1$
c_{11}	$y^{46} - 9y^{45} + \dots - 10y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.967242 + 0.259496I		
a = 1.05380 - 3.35382I	-8.03600 - 3.76090I	-11.49389 + 4.80109I
b = 0.125565 - 1.393460I		
u = -0.967242 - 0.259496I		
a = 1.05380 + 3.35382I	-8.03600 + 3.76090I	-11.49389 - 4.80109I
b = 0.125565 + 1.393460I		
u = 0.429921 + 0.906941I		
a = 0.440586 - 0.686873I	-2.69565 + 4.90056I	-4.75531 - 6.01424I
b = -0.422994 - 1.122700I		
u = 0.429921 - 0.906941I		
a = 0.440586 + 0.686873I	-2.69565 - 4.90056I	-4.75531 + 6.01424I
b = -0.422994 + 1.122700I		
u = 0.725204 + 0.693954I		
a = -0.276536 + 0.224180I	2.33974 - 3.60285I	-0.61269 + 4.95954I
b = -0.245515 + 0.502452I		
u = 0.725204 - 0.693954I		
a = -0.276536 - 0.224180I	2.33974 + 3.60285I	-0.61269 - 4.95954I
b = -0.245515 - 0.502452I		
u = -0.939292 + 0.214126I		
a = -0.670956 - 1.221050I	-7.85483 + 5.69821I	-11.15488 - 7.28120I
b = -0.006621 - 1.329610I		
u = -0.939292 - 0.214126I		
a = -0.670956 + 1.221050I	-7.85483 - 5.69821I	-11.15488 + 7.28120I
b = -0.006621 + 1.329610I		
u = 0.988081 + 0.348862I		
a = 0.65953 + 1.62479I	-6.77873 + 0.13867I	-0.84845 + 1.77413I
b = 0.49449 + 1.47775I		
u = 0.988081 - 0.348862I		
a = 0.65953 - 1.62479I	-6.77873 - 0.13867I	-0.84845 - 1.77413I
b = 0.49449 - 1.47775I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.041620 + 0.309578I		
a = -2.14648 - 2.83300I	-5.19056 - 6.65225I	-9.73982 + 9.73034I
b = 0.204092 - 0.739022I		
u = 1.041620 - 0.309578I		
a = -2.14648 + 2.83300I	-5.19056 + 6.65225I	-9.73982 - 9.73034I
b = 0.204092 + 0.739022I		
u = 0.996864 + 0.468531I		
a = 1.127250 - 0.469028I	0.239315 - 0.043472I	0 8.33527I
b = 1.183350 + 0.615781I		
u = 0.996864 - 0.468531I		
a = 1.127250 + 0.469028I	0.239315 + 0.043472I	0. + 8.33527I
b = 1.183350 - 0.615781I		
u = 0.856514 + 0.251703I		
a = 0.62668 + 2.79288I	-6.12295 - 2.65789I	-5.21741 + 10.16383I
b = -0.24475 + 1.47466I		
u = 0.856514 - 0.251703I		
a = 0.62668 - 2.79288I	-6.12295 + 2.65789I	-5.21741 - 10.16383I
b = -0.24475 - 1.47466I		
u = -0.996485 + 0.490399I		
a = -0.151455 + 1.401610I	0.37946 + 5.76027I	-2.0000 - 14.3388I
b = 1.109930 + 0.263672I		
u = -0.996485 - 0.490399I		
a = -0.151455 - 1.401610I	0.37946 - 5.76027I	-2.0000 + 14.3388I
b = 1.109930 - 0.263672I		
u = -0.729085 + 0.854559I		
a = 0.972569 - 0.204713I	-0.55218 - 2.11050I	-6.77517 + 6.77743I
b = -0.177552 - 0.646493I		
u = -0.729085 - 0.854559I		
a = 0.972569 + 0.204713I	-0.55218 + 2.11050I	-6.77517 - 6.77743I
b = -0.177552 + 0.646493I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.805306 + 0.280716I		
a = 1.96923 + 2.19082I	-4.28569 + 4.16900I	-0.96371 - 4.22019I
b = -0.194423 - 0.603030I		
u = 0.805306 - 0.280716I		
a = 1.96923 - 2.19082I	-4.28569 - 4.16900I	-0.96371 + 4.22019I
b = -0.194423 + 0.603030I		
u = -0.688261 + 0.466101I		
a = 0.594536 - 0.754409I	1.44422 - 1.78366I	2.52994 + 3.89108I
b = -0.820598 + 0.244677I		
u = -0.688261 - 0.466101I		
a = 0.594536 + 0.754409I	1.44422 + 1.78366I	2.52994 - 3.89108I
b = -0.820598 - 0.244677I		
u = -1.058940 + 0.544011I		
a = -1.18927 + 1.32788I	-5.22806 + 6.48862I	0
b = 0.787281 + 1.122690I		
u = -1.058940 - 0.544011I		
a = -1.18927 - 1.32788I	-5.22806 - 6.48862I	0
b = 0.787281 - 1.122690I		
u = -0.962805 + 0.706764I		
a = -0.375508 + 0.233471I	-1.28663 + 7.88982I	0
b = 0.065716 - 0.538154I		
u = -0.962805 - 0.706764I		
a = -0.375508 - 0.233471I	-1.28663 - 7.88982I	0
b = 0.065716 + 0.538154I		
u = 0.665853 + 0.423392I		
a = 0.557072 + 0.755875I	1.36692 - 3.73506I	-1.74396 + 12.46346I
b = -0.999022 + 0.734436I		
u = 0.665853 - 0.423392I		
a = 0.557072 - 0.755875I	1.36692 + 3.73506I	-1.74396 - 12.46346I
b = -0.999022 - 0.734436I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.140820 + 0.451564I		
a = -0.74590 + 2.11225I	-0.89501 + 5.66556I	0
b = 0.430389 + 0.932359I		
u = -1.140820 - 0.451564I		
a = -0.74590 - 2.11225I	-0.89501 - 5.66556I	0
b = 0.430389 - 0.932359I		
u = 1.008510 + 0.746406I		
a = 0.628091 + 0.548655I	1.47367 - 1.93340I	0
b = 0.075039 + 0.606986I		
u = 1.008510 - 0.746406I		
a = 0.628091 - 0.548655I	1.47367 + 1.93340I	0
b = 0.075039 - 0.606986I		
u = 1.130090 + 0.619557I		
a = -1.39088 - 1.92423I	-4.86841 - 10.47860I	0
b = 0.460826 - 1.277380I		
u = 1.130090 - 0.619557I		
a = -1.39088 + 1.92423I	-4.86841 + 10.47860I	0
b = 0.460826 + 1.277380I		
u = -0.538641 + 0.383684I		
a = 1.055000 + 0.512454I	1.23640 - 2.06191I	-2.40525 + 1.66559I
b = -0.594032 + 0.752150I		
u = -0.538641 - 0.383684I		
a = 1.055000 - 0.512454I	1.23640 + 2.06191I	-2.40525 - 1.66559I
b = -0.594032 - 0.752150I		
u = -0.272756 + 0.568907I		
a = 0.977129 - 0.948003I	-3.33196 - 1.98343I	-1.28839 + 4.06659I
b = -0.524855 + 0.934111I		
u = -0.272756 - 0.568907I		
a = 0.977129 + 0.948003I	-3.33196 + 1.98343I	-1.28839 - 4.06659I
b = -0.524855 - 0.934111I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.48090 + 0.03553I		
a = 0.017265 + 1.379330I	-9.38977 - 0.36803I	0
b = 0.165014 + 0.984511I		
u = 1.48090 - 0.03553I		
a = 0.017265 - 1.379330I	-9.38977 + 0.36803I	0
b = 0.165014 - 0.984511I		
u = -1.47989 + 0.12531I		
a = 0.13181 - 1.74157I	-9.37086 - 1.69923I	0
b = 0.168012 - 0.978347I		
u = -1.47989 - 0.12531I		
a = 0.13181 + 1.74157I	-9.37086 + 1.69923I	0
b = 0.168012 + 0.978347I		
u = -0.354643 + 0.364408I		
a = 0.63642 - 2.05065I	-3.32459 - 2.00115I	-2.41651 + 4.47631I
b = -0.539342 + 0.857540I		
u = -0.354643 - 0.364408I		
a = 0.63642 + 2.05065I	-3.32459 + 2.00115I	-2.41651 - 4.47631I
b = -0.539342 - 0.857540I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{46} - 28u^{45} + \dots - 17u + 1) \cdot (u^{177} + 89u^{176} + \dots + 1149811u + 32761)$
c_2	$ (u^{46} - 14u^{44} + \dots - 3u + 1)(u^{177} + u^{176} + \dots - 113u + 181) $
c_3	$(u^{46} + u^{45} + \dots + 132u + 11)$ $\cdot (u^{177} + 16u^{175} + \dots + 2770141136u + 148430897)$
c_4	$(u^{46} + u^{45} + \dots + 4u + 1)(u^{177} + 2u^{176} + \dots - 118u - 47)$
c_5	$(u^{46} - u^{45} + \dots + 18u + 1)(u^{177} - 68u^{175} + \dots - 8904u + 467)$
c_6	$(u^{46} - u^{45} + \dots + 3u + 1)(u^{177} + 51u^{175} + \dots + 1008921u + 96053)$
c_7	$(u^{46} - 14u^{44} + \dots + 3u + 1)(u^{177} + u^{176} + \dots - 113u + 181)$
c_8	$(u^{46} + 3u^{45} + \dots + 12u + 1)(u^{177} - 10u^{176} + \dots + 224156u + 83191)$
<i>C</i> 9	$(u^{46} + 4u^{45} + \dots - u + 1)(u^{177} + 13u^{176} + \dots - 3396057u - 216341)$
c_{10}	$(u^{46} + u^{45} + \dots - 3u + 1)(u^{177} + 51u^{175} + \dots + 1008921u + 96053)$
c_{11}	$(u^{46} - u^{45} + \dots - 2u + 1)(u^{177} - 4u^{176} + \dots - 500u + 41)$
c_{12}	$(u^{46} + u^{45} + \dots - 18u + 1)(u^{177} - 68u^{175} + \dots - 8904u + 467)$ 33

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{46} - 4y^{45} + \dots + 47y + 1)$ $\cdot (y^{177} + 15y^{176} + \dots + 55508891787y - 1073283121)$
c_2, c_7	$(y^{46} - 28y^{45} + \dots - 17y + 1)$ $\cdot (y^{177} - 89y^{176} + \dots + 1149811y - 32761)$
c_3	$(y^{46} - 7y^{45} + \dots - 10582y + 121)$ $\cdot (y^{177} + 32y^{176} + \dots - 268829528448372104y - 22031731184224609)$
c_4	$(y^{46} - 19y^{45} + \dots + 4y + 1)(y^{177} - 32y^{176} + \dots + 102002y - 2209)$
c_5, c_{12}	$(y^{46} - 43y^{45} + \dots - 98y + 1)$ $\cdot (y^{177} - 136y^{176} + \dots - 143543164y - 218089)$
c_6, c_{10}	$(y^{46} + 27y^{45} + \dots + 35y + 1)$ $\cdot (y^{177} + 102y^{176} + \dots - 436351764825y - 9226178809)$
c_8	$(y^{46} - 21y^{45} + \dots + 68y + 1)$ $\cdot (y^{177} - 30y^{176} + \dots + 663714149210y - 6920742481)$
<i>c</i> 9	$(y^{46} + 12y^{45} + \dots + 23y + 1)$ $\cdot (y^{177} + 43y^{176} + \dots - 5046528559981y - 46803428281)$
c_{11}	$(y^{46} - 9y^{45} + \dots - 10y + 1)(y^{177} - 14y^{176} + \dots + 185384y - 1681)$