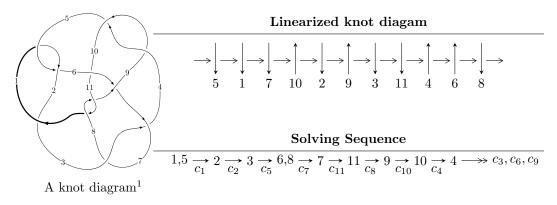
$11a_{115} \ (K11a_{115})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.32851 \times 10^{102} u^{77} - 1.61333 \times 10^{103} u^{76} + \dots + 2.32216 \times 10^{103} b + 2.92650 \times 10^{103}, \\ &- 2.22107 \times 10^{103} u^{77} + 8.11330 \times 10^{103} u^{76} + \dots + 2.32216 \times 10^{103} a + 2.42675 \times 10^{104}, \\ &u^{78} - 3u^{77} + \dots + 10u + 1 \rangle \\ I_2^u &= \langle -2u^{17} - 2u^{16} + \dots + b - 3, \ -4u^{17} - 5u^{16} + \dots + a - 3, \ u^{18} + 2u^{17} + \dots + 2u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 96 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.
$$I_1^u = \langle 3.33 \times 10^{102} u^{77} - 1.61 \times 10^{103} u^{76} + \cdots + 2.32 \times 10^{103} b + 2.93 \times 10^{103}, \ -2.22 \times 10^{103} u^{77} + 8.11 \times 10^{103} u^{76} + \cdots + 2.32 \times 10^{103} a + 2.43 \times 10^{104}, \ u^{78} - 3u^{77} + \cdots + 10u + 1 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.956467u^{77} - 3.49386u^{76} + \dots + 58.2139u - 10.4504 \\ -0.143337u^{77} + 0.694752u^{76} + \dots - 11.2798u - 1.26025 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.623458u^{77} - 2.49883u^{76} + \dots + 44.5704u - 11.9913 \\ -0.180850u^{77} + 0.890365u^{76} + \dots - 11.7000u - 1.33932 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.963362u^{77} + 3.15022u^{76} + \dots - 117.362u - 14.6971 \\ -0.255022u^{77} + 0.791044u^{76} + \dots - 5.96319u + 0.0156746 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.580789u^{77} + 1.58696u^{76} + \dots - 51.0047u - 13.6034 \\ 0.323044u^{77} - 1.22096u^{76} + \dots - 4.39700u + 0.102187 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.25538u^{77} + 3.66967u^{76} + \dots - 115.076u - 14.3275 \\ -0.0438473u^{77} + 0.659953u^{76} + \dots - 4.39108u + 0.00274049 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.66912u^{77} - 5.04900u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 9.44012u + 0.185234 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.66912u^{77} - 5.04900u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 142.099u + 20.3371 \\ -0.229652u^{77} + 0.323047u^{76} + \dots + 14$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.440746u^{77} + 0.132996u^{76} + \cdots + 82.1887u + 8.36358$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{78} + 3u^{77} + \dots - 10u + 1$
c_2	$u^{78} + 27u^{77} + \dots - 82u + 1$
c_3, c_7	$u^{78} + u^{77} + \dots + 658u + 59$
c_4, c_9	$u^{78} + u^{77} + \dots - 2u + 1$
<i>C</i> ₆	$u^{78} + 10u^{77} + \dots + 194051u + 23683$
c_8, c_{11}	$u^{78} - 4u^{77} + \dots - 1235u + 271$
c_{10}	$u^{78} - 2u^{77} + \dots - 34703u + 4663$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1,c_5	$y^{78} - 27y^{77} + \dots + 82y + 1$
c_2	$y^{78} + 57y^{77} + \dots + 3662y + 1$
c_3, c_7	$y^{78} + 73y^{77} + \dots - 596276y + 3481$
c_4, c_9	$y^{78} - 59y^{77} + \dots - 128y + 1$
c ₆	$y^{78} - 36y^{77} + \dots - 17292910371y + 560884489$
c_8, c_{11}	$y^{78} + 60y^{77} + \dots - 1616823y + 73441$
c_{10}	$y^{78} - 32y^{77} + \dots - 28280283y + 21743569$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.919382 + 0.415096I		
a = -0.319202 - 0.766497I	-1.84172 - 1.54832I	0
b = 0.705973 - 0.119570I		
u = 0.919382 - 0.415096I		
a = -0.319202 + 0.766497I	-1.84172 + 1.54832I	0
b = 0.705973 + 0.119570I		
u = 0.651027 + 0.778881I		
a = 0.651319 - 0.808354I	6.48100 - 3.09388I	0
b = 0.351881 - 0.133943I		
u = 0.651027 - 0.778881I		
a = 0.651319 + 0.808354I	6.48100 + 3.09388I	0
b = 0.351881 + 0.133943I		
u = 0.980487 + 0.091787I		
a = -0.786643 + 0.077505I	-1.67404 - 0.08608I	0
b = -0.441029 - 0.187587I		
u = 0.980487 - 0.091787I		
a = -0.786643 - 0.077505I	-1.67404 + 0.08608I	0
b = -0.441029 + 0.187587I		
u = -0.510641 + 0.879678I		
a = -0.07433 + 1.43681I	7.01017 + 0.55763I	0
b = -0.084266 - 1.336750I		
u = -0.510641 - 0.879678I		
a = -0.07433 - 1.43681I	7.01017 - 0.55763I	0
b = -0.084266 + 1.336750I		
u = -0.683117 + 0.756267I		
a = 0.68410 + 2.40034I	6.61578 - 3.90393I	0
b = -0.175954 - 1.224060I		
u = -0.683117 - 0.756267I		
a = 0.68410 - 2.40034I	6.61578 + 3.90393I	0
b = -0.175954 + 1.224060I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.912558 + 0.348343I		
a = 0.947042 + 0.537303I	-2.10532 + 3.54417I	0
b = 0.787513 - 0.609067I		
u = -0.912558 - 0.348343I		
a = 0.947042 - 0.537303I	-2.10532 - 3.54417I	0
b = 0.787513 + 0.609067I		
u = -0.854307 + 0.613428I		
a = -0.502806 - 0.147246I	2.08259 + 2.42309I	0
b = -0.520280 - 0.175145I		
u = -0.854307 - 0.613428I		
a = -0.502806 + 0.147246I	2.08259 - 2.42309I	0
b = -0.520280 + 0.175145I		
u = 0.785103 + 0.701110I		
a = 0.29828 + 1.88835I	10.31720 + 0.07253I	0
b = 0.165797 - 1.365190I		
u = 0.785103 - 0.701110I		
a = 0.29828 - 1.88835I	10.31720 - 0.07253I	0
b = 0.165797 + 1.365190I		
u = -1.051310 + 0.134686I		
a = -0.534104 + 0.782333I	1.42489 + 4.47911I	0
b = -0.661388 - 0.288377I		
u = -1.051310 - 0.134686I		
a = -0.534104 - 0.782333I	1.42489 - 4.47911I	0
b = -0.661388 + 0.288377I		
u = 0.823137 + 0.670951I		
a = -1.04974 + 1.76751I	2.31988 + 0.18759I	0
b = 0.110492 - 1.219630I		
u = 0.823137 - 0.670951I		
a = -1.04974 - 1.76751I	2.31988 - 0.18759I	0
b = 0.110492 + 1.219630I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.625258 + 0.864565I		
a = -0.58964 - 1.50488I	8.01275 - 4.37942I	0
b = 0.43046 + 1.58093I		
u = -0.625258 - 0.864565I		
a = -0.58964 + 1.50488I	8.01275 + 4.37942I	0
b = 0.43046 - 1.58093I		
u = 0.721996 + 0.787512I		
a = 0.391090 + 0.643123I	7.57591 + 4.18168I	0
b = -1.205930 + 0.306716I		
u = 0.721996 - 0.787512I		
a = 0.391090 - 0.643123I	7.57591 - 4.18168I	0
b = -1.205930 - 0.306716I		
u = -0.646393 + 0.857994I		
a = -0.57056 - 1.86291I	6.63045 + 2.08529I	0
b = -0.330634 + 1.210310I		
u = -0.646393 - 0.857994I		
a = -0.57056 + 1.86291I	6.63045 - 2.08529I	0
b = -0.330634 - 1.210310I		
u = 1.091450 + 0.073360I		
a = -0.785955 + 0.496692I	0.82847 - 3.56102I	0
b = -0.428556 - 1.064990I		
u = 1.091450 - 0.073360I		
a = -0.785955 - 0.496692I	0.82847 + 3.56102I	0
b = -0.428556 + 1.064990I		
u = -0.900766 + 0.062670I		
a = 0.07406 + 1.84676I	6.20657 - 0.98958I	-60.902681 + 0.10I
b = -0.241501 + 1.105310I		
u = -0.900766 - 0.062670I		
a = 0.07406 - 1.84676I	6.20657 + 0.98958I	-60.902681 + 0.10I
b = -0.241501 - 1.105310I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.796237 + 0.760422I		
a = 0.738120 - 1.145030I	11.42440 - 2.49625I	0
b = -0.63396 + 1.61284I		
u = 0.796237 - 0.760422I		
a = 0.738120 + 1.145030I	11.42440 + 2.49625I	0
b = -0.63396 - 1.61284I		
u = -0.867555 + 0.688655I		
a = -0.353143 + 0.969190I	1.69309 + 2.65199I	0
b = 1.57794 + 0.12915I		
u = -0.867555 - 0.688655I		
a = -0.353143 - 0.969190I	1.69309 - 2.65199I	0
b = 1.57794 - 0.12915I		
u = 0.897871 + 0.675237I		
a = 0.98099 - 2.00046I	2.08862 - 5.40076I	0
b = 0.327853 + 1.299700I		
u = 0.897871 - 0.675237I		
a = 0.98099 + 2.00046I	2.08862 + 5.40076I	0
b = 0.327853 - 1.299700I		
u = -0.471260 + 0.715322I		
a = 0.367913 + 0.003194I	3.10549 - 1.21428I	-6 - 0.932552 + 0.10I
b = -0.577762 + 0.019556I		
u = -0.471260 - 0.715322I		
a = 0.367913 - 0.003194I	3.10549 + 1.21428I	-6 - 0.932552 + 0.10I
b = -0.577762 - 0.019556I		
u = 0.934384 + 0.682083I		
a = 2.19405 - 1.31253I	9.85296 - 5.39790I	0
b = 0.209204 + 1.238200I		
u = 0.934384 - 0.682083I		
a = 2.19405 + 1.31253I	9.85296 + 5.39790I	0
b = 0.209204 - 1.238200I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.806544 + 0.123097I		
a = 0.539789 + 0.141829I	-1.17381 - 1.68388I	0.83726 - 6.01771I
b = 0.637200 + 0.917242I		
u = -0.806544 - 0.123097I		
a = 0.539789 - 0.141829I	-1.17381 + 1.68388I	0.83726 + 6.01771I
b = 0.637200 - 0.917242I		
u = 0.940160 + 0.729085I		
a = -1.30654 + 1.57774I	10.98100 - 3.15371I	0
b = -0.76597 - 1.46965I		
u = 0.940160 - 0.729085I		
a = -1.30654 - 1.57774I	10.98100 + 3.15371I	0
b = -0.76597 + 1.46965I		
u = 0.785464 + 0.142913I		
a = 0.62353 - 1.64939I	-1.32910 - 0.60787I	-3.50485 - 2.67829I
b = 0.831715 + 0.510792I		
u = 0.785464 - 0.142913I		
a = 0.62353 + 1.64939I	-1.32910 + 0.60787I	-3.50485 + 2.67829I
b = 0.831715 - 0.510792I		
u = -1.053060 + 0.586459I		
a = -0.023473 - 0.712350I	1.39270 + 6.19483I	0
b = -0.590557 + 0.019641I		
u = -1.053060 - 0.586459I		
a = -0.023473 + 0.712350I	1.39270 - 6.19483I	0
b = -0.590557 - 0.019641I		
u = 0.650281 + 1.026430I		
a = 0.39794 - 1.45251I	13.3117 + 9.8514I	0
b = -0.44162 + 1.48170I		
u = 0.650281 - 1.026430I		
a = 0.39794 + 1.45251I	13.3117 - 9.8514I	0
b = -0.44162 - 1.48170I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.003170 + 0.699177I		
a = -1.20363 - 2.06396I	5.65322 + 9.45248I	0
b = -0.276298 + 1.317430I		
u = -1.003170 - 0.699177I		
a = -1.20363 + 2.06396I	5.65322 - 9.45248I	0
b = -0.276298 - 1.317430I		
u = 0.991949 + 0.723933I		
a = 0.029164 + 0.815832I	6.75517 - 9.89412I	0
b = -1.324200 - 0.107360I		
u = 0.991949 - 0.723933I		
a = 0.029164 - 0.815832I	6.75517 + 9.89412I	0
b = -1.324200 + 0.107360I		
u = 1.224710 + 0.112853I		
a = 0.237600 + 0.305151I	1.03395 - 3.16868I	0
b = 0.268395 + 1.179100I		
u = 1.224710 - 0.112853I		
a = 0.237600 - 0.305151I	1.03395 + 3.16868I	0
b = 0.268395 - 1.179100I		
u = 1.025600 + 0.727427I		
a = 0.186084 + 0.163814I	5.36964 - 2.62564I	0
b = 0.616269 - 0.163910I		
u = 1.025600 - 0.727427I		
a = 0.186084 - 0.163814I	5.36964 + 2.62564I	0
b = 0.616269 + 0.163910I		
u = -1.058580 + 0.726505I		
a = 1.27853 + 1.47897I	6.70371 + 10.29660I	0
b = 0.60139 - 1.55104I		
u = -1.058580 - 0.726505I		
a = 1.27853 - 1.47897I	6.70371 - 10.29660I	0
b = 0.60139 + 1.55104I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.040720 + 0.774309I		
a = 0.70860 + 1.25362I	5.46363 + 3.99334I	0
b = -0.097731 - 1.271840I		
u = -1.040720 - 0.774309I		
a = 0.70860 - 1.25362I	5.46363 - 3.99334I	0
b = -0.097731 + 1.271840I		
u = -1.098500 + 0.730187I		
a = -1.24857 - 1.08059I	5.29888 + 5.39356I	0
b = -0.254548 + 1.221860I		
u = -1.098500 - 0.730187I		
a = -1.24857 + 1.08059I	5.29888 - 5.39356I	0
b = -0.254548 - 1.221860I		
u = 1.115900 + 0.788410I		
a = -1.18485 + 1.48176I	11.8295 - 16.4283I	0
b = -0.55541 - 1.48099I		
u = 1.115900 - 0.788410I		
a = -1.18485 - 1.48176I	11.8295 + 16.4283I	0
b = -0.55541 + 1.48099I		
u = 0.45896 + 1.35957I		
a = -0.065261 + 1.254430I	10.84600 - 2.03461I	0
b = 0.046387 - 1.281840I		
u = 0.45896 - 1.35957I		
a = -0.065261 - 1.254430I	10.84600 + 2.03461I	0
b = 0.046387 + 1.281840I		
u = -1.43030 + 0.30968I		
a = -0.462230 - 0.259484I	4.19571 + 7.76962I	0
b = -0.251800 + 1.189590I		
u = -1.43030 - 0.30968I		
a = -0.462230 + 0.259484I	4.19571 - 7.76962I	0
b = -0.251800 - 1.189590I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.489302 + 0.114434I		
a = -1.24057 + 1.69081I	7.78823 + 1.62906I	-3.05008 - 4.47531I
b = -0.11108 - 1.50372I		
u = -0.489302 - 0.114434I		
a = -1.24057 - 1.69081I	7.78823 - 1.62906I	-3.05008 + 4.47531I
b = -0.11108 + 1.50372I		
u = 1.24794 + 0.95730I		
a = 0.717195 - 1.121420I	8.51017 - 5.96874I	0
b = 0.280618 + 1.201350I		
u = 1.24794 - 0.95730I		
a = 0.717195 + 1.121420I	8.51017 + 5.96874I	0
b = 0.280618 - 1.201350I		
u = 0.013339 + 0.320104I		
a = -1.39879 - 0.45191I	-0.078062 - 1.100560I	-1.42175 + 6.23894I
b = 0.373310 + 0.454562I		
u = 0.013339 - 0.320104I		
a = -1.39879 + 0.45191I	-0.078062 + 1.100560I	-1.42175 - 6.23894I
b = 0.373310 - 0.454562I		
u = -0.0520369 + 0.1011840I		
a = -15.3453 + 3.5674I	5.14575 - 3.44483I	3.90868 + 8.31277I
b = -0.351925 - 0.721276I		
u = -0.0520369 - 0.1011840I		
a = -15.3453 - 3.5674I	5.14575 + 3.44483I	3.90868 - 8.31277I
b = -0.351925 + 0.721276I		

$$\text{II. } I_2^u = \\ \langle -2u^{17} - 2u^{16} + \dots + b - 3, \ -4u^{17} - 5u^{16} + \dots + a - 3, \ u^{18} + 2u^{17} + \dots + 2u + 1 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 4u^{17} + 5u^{16} + \dots + 3u + 3 \\ 2u^{17} + 2u^{16} + \dots + 5u + 3 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 3u^{17} + 3u^{16} + \dots + 3u + 1 \\ 2u^{17} + 2u^{16} + \dots + 6u + 3 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 3u^{17} + 6u^{16} + \dots + 4u + 8 \\ -2u^{17} - 4u^{16} + \dots + 9u^{2} - 1 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{17} - 3u^{15} + \dots + 9u^{2} - 4 \\ -u^{16} - 3u^{15} + \dots + 4u + 3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 4u^{17} + 7u^{16} + \dots + 3u + 6 \\ -u^{17} - 2u^{16} + \dots + 2u + 2 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2u^{17} + 4u^{16} + \dots - 13u^{2} + 5 \\ -u^{17} + 4u^{15} + \dots - u + 2 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 2u^{17} + 4u^{16} + \dots - 13u^{2} + 5 \\ -u^{17} + 4u^{15} + \dots - u + 2 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$4u^{17} + 12u^{16} + 7u^{15} - 17u^{14} - 12u^{13} + 41u^{12} + 54u^{11} - 33u^{10} - 85u^9 + 12u^8 + 97u^7 - u^6 - 90u^5 - 6u^4 + 70u^3 + 18u^2 - 28u - 16$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{18} + 2u^{17} + \dots + 2u + 1$
c_2	$u^{18} + 8u^{17} + \dots + 8u + 1$
c_3	$u^{18} + 10u^{16} + \dots - 6u + 1$
c_4	$u^{18} - 6u^{16} + \dots + 9u^2 + 1$
<i>C</i> 5	$u^{18} - 2u^{17} + \dots - 2u + 1$
<i>C</i> ₆	$u^{18} + 3u^{17} + \dots + 7u + 1$
C ₇	$u^{18} + 10u^{16} + \dots + 6u + 1$
c ₈	$u^{18} - 3u^{17} + \dots - 3u + 1$
<i>c</i> ₉	$u^{18} - 6u^{16} + \dots + 9u^2 + 1$
c_{10}	$u^{18} + u^{17} + \dots + u + 1$
c_{11}	$u^{18} + 3u^{17} + \dots + 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{18} - 8y^{17} + \dots - 8y + 1$
c_2	$y^{18} + 12y^{17} + \dots + 8y + 1$
c_3, c_7	$y^{18} + 20y^{17} + \dots + 2y + 1$
c_4, c_9	$y^{18} - 12y^{17} + \dots + 18y + 1$
	$y^{18} - 5y^{17} + \dots - 17y + 1$
c_8,c_{11}	$y^{18} + 11y^{17} + \dots + 7y + 1$
c_{10}	$y^{18} - 5y^{17} + \dots - 9y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.600980 + 0.789755I		
a = -0.005827 + 0.968886I	9.11732 - 1.68939I	4.72142 + 2.78192I
b = 0.244466 - 1.282710I		
u = 0.600980 - 0.789755I		
a = -0.005827 - 0.968886I	9.11732 + 1.68939I	4.72142 - 2.78192I
b = 0.244466 + 1.282710I		
u = 0.882213 + 0.342814I		
a = 0.473394 + 1.217710I	-1.03138 - 1.46977I	0.74998 + 4.28225I
b = -0.686177 - 0.146117I		
u = 0.882213 - 0.342814I		
a = 0.473394 - 1.217710I	-1.03138 + 1.46977I	0.74998 - 4.28225I
b = -0.686177 + 0.146117I		
u = -0.867359 + 0.630592I		
a = -0.069787 - 0.673710I	0.76282 + 2.46662I	-3.87434 - 2.61953I
b = -1.169260 - 0.096853I		
u = -0.867359 - 0.630592I		
a = -0.069787 + 0.673710I	0.76282 - 2.46662I	-3.87434 + 2.61953I
b = -1.169260 + 0.096853I		
u = 0.878300 + 0.073533I		
a = -0.610367 + 0.158854I	-1.39353 - 2.18547I	-5.73139 + 7.17501I
b = -0.545461 - 0.836793I		
u = 0.878300 - 0.073533I		
a = -0.610367 - 0.158854I	-1.39353 + 2.18547I	-5.73139 - 7.17501I
b = -0.545461 + 0.836793I		
u = -1.141810 + 0.444651I		
a = -0.300052 + 0.568408I	2.86239 + 5.92628I	1.35739 - 5.49734I
b = 0.123838 - 0.630055I		
u = -1.141810 - 0.444651I		
a = -0.300052 - 0.568408I	2.86239 - 5.92628I	1.35739 + 5.49734I
b = 0.123838 + 0.630055I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.963245 + 0.833701I		
a = 1.17457 - 1.26015I	8.06866 - 4.51985I	3.88251 + 3.07468I
b = 0.342226 + 1.036720I		
u = 0.963245 - 0.833701I		
a = 1.17457 + 1.26015I	8.06866 + 4.51985I	3.88251 - 3.07468I
b = 0.342226 - 1.036720I		
u = -0.667472 + 0.285364I		
a = -1.11513 + 2.54893I	4.80242 - 2.81861I	-1.84387 - 0.52056I
b = 0.325026 + 0.632338I		
u = -0.667472 - 0.285364I		
a = -1.11513 - 2.54893I	4.80242 + 2.81861I	-1.84387 + 0.52056I
b = 0.325026 - 0.632338I		
u = -0.482522 + 0.541462I		
a = -0.41220 + 2.30716I	8.48319 - 0.98511I	5.24254 - 0.71087I
b = 0.04482 - 1.43171I		
u = -0.482522 - 0.541462I		
a = -0.41220 - 2.30716I	8.48319 + 0.98511I	5.24254 + 0.71087I
b = 0.04482 + 1.43171I		
u = -1.165580 + 0.721113I		
a = -1.13459 - 1.06778I	6.16158 + 6.28946I	3.99576 - 6.33325I
b = -0.179481 + 1.292250I		
u = -1.165580 - 0.721113I		
a = -1.13459 + 1.06778I	6.16158 - 6.28946I	3.99576 + 6.33325I
b = -0.179481 - 1.292250I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{18} + 2u^{17} + \dots + 2u + 1)(u^{78} + 3u^{77} + \dots - 10u + 1) $
c_2	$(u^{18} + 8u^{17} + \dots + 8u + 1)(u^{78} + 27u^{77} + \dots - 82u + 1)$
<i>c</i> ₃	$(u^{18} + 10u^{16} + \dots - 6u + 1)(u^{78} + u^{77} + \dots + 658u + 59)$
C ₄	$(u^{18} - 6u^{16} + \dots + 9u^2 + 1)(u^{78} + u^{77} + \dots - 2u + 1)$
<i>C</i> 5	$(u^{18} - 2u^{17} + \dots - 2u + 1)(u^{78} + 3u^{77} + \dots - 10u + 1)$
c_6	$(u^{18} + 3u^{17} + \dots + 7u + 1)(u^{78} + 10u^{77} + \dots + 194051u + 23683)$
C ₇	$(u^{18} + 10u^{16} + \dots + 6u + 1)(u^{78} + u^{77} + \dots + 658u + 59)$
c ₈	$(u^{18} - 3u^{17} + \dots - 3u + 1)(u^{78} - 4u^{77} + \dots - 1235u + 271)$
<i>c</i> ₉	$(u^{18} - 6u^{16} + \dots + 9u^2 + 1)(u^{78} + u^{77} + \dots - 2u + 1)$
c_{10}	$(u^{18} + u^{17} + \dots + u + 1)(u^{78} - 2u^{77} + \dots - 34703u + 4663)$
c_{11}	$(u^{18} + 3u^{17} + \dots + 3u + 1)(u^{78} - 4u^{77} + \dots - 1235u + 271)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1,c_5	$(y^{18} - 8y^{17} + \dots - 8y + 1)(y^{78} - 27y^{77} + \dots + 82y + 1)$
c_2	$(y^{18} + 12y^{17} + \dots + 8y + 1)(y^{78} + 57y^{77} + \dots + 3662y + 1)$
c_3, c_7	$(y^{18} + 20y^{17} + \dots + 2y + 1)(y^{78} + 73y^{77} + \dots - 596276y + 3481)$
c_4, c_9	$(y^{18} - 12y^{17} + \dots + 18y + 1)(y^{78} - 59y^{77} + \dots - 128y + 1)$
c ₆	$(y^{18} - 5y^{17} + \dots - 17y + 1)$ $\cdot (y^{78} - 36y^{77} + \dots - 17292910371y + 560884489)$
c_8, c_{11}	$(y^{18} + 11y^{17} + \dots + 7y + 1)(y^{78} + 60y^{77} + \dots - 1616823y + 73441)$
c_{10}	$(y^{18} - 5y^{17} + \dots - 9y + 1)$ $\cdot (y^{78} - 32y^{77} + \dots - 28280283y + 21743569)$