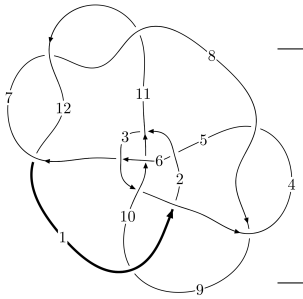
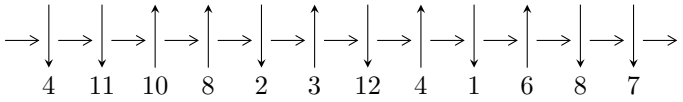
$12n_{0884}$ $(K12n_{0884})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$\underset{c_{11}}{8,11} \rightarrow \underset{c_2}{3,12} \rightarrow \underset{c_7}{2} \longrightarrow \underset{c_{12}}{7} \longrightarrow \underset{c_6}{1} \longrightarrow \underset{c_5}{6} \longrightarrow \underset{c_4}{5} \longrightarrow \underset{c_{10}}{4} \rightarrow \underset{c_9}{10} \rightarrow 9 \longrightarrow\!\!\!\rightarrow c_1, c_3, c_8$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$I_1^u = \langle 6.92522 \times 10^{114} u^{65} + 7.79579 \times 10^{114} u^{64} + \cdots + 1.05263 \times 10^{116} b + 1.06529 \times 10^{116},$$
$$2.10463 \times 10^{115} u^{65} + 2.07609 \times 10^{115} u^{64} + \cdots + 1.05263 \times 10^{116} a - 5.95398 \times 10^{116},\ u^{66} + u^{65} + \cdots + 10u$$
$$I_2^u = \langle 5062u^{25} + 58938u^{24} + \cdots + 41551b + 49477,\ 39311u^{25} - 193434u^{24} + \cdots + 83102a - 142443,$$
$$u^{26} + 14u^{24} + \cdots + 5u + 2\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 92 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle 6.93 \times 10^{114} u^{65} + 7.80 \times 10^{114} u^{64} + \cdots + 1.05 \times 10^{116} b + 1.07 \times 10^{116},\ 2.10 \times 10^{115} u^{65} + 2.08 \times 10^{115} u^{64} + \cdots + 1.05 \times 10^{116} a - 5.95 \times 10^{116},\ u^{66} + u^{65} + \cdots + 10u + 2 \rangle}$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -0.199939u^{65} - 0.197229u^{64} + \cdots - 77.2406u + 5.65628 \\ -0.0657896u^{65} - 0.0740600u^{64} + \cdots - 15.1513u - 1.01203 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.265729u^{65} - 0.271289u^{64} + \cdots - 92.3919u + 4.64425 \\ -0.0657896u^{65} - 0.0740600u^{64} + \cdots - 15.1513u - 1.01203 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.154474u^{65} + 0.163738u^{64} + \cdots - 39.6036u - 4.17290 \\ -0.0100877u^{65} - 0.0272293u^{64} + \cdots + 9.63617u - 0.394982 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.365614u^{65} - 0.360819u^{64} + \cdots - 112.342u + 3.05715 \\ -0.0575553u^{65} - 0.0529177u^{64} + \cdots - 7.20091u - 1.02247 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.365614u^{65} - 0.360819u^{64} + \cdots - 112.342u + 3.05715 \\ -0.0535842u^{65} - 0.0427053u^{64} + \cdots - 6.51764u - 1.03206 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.114404u^{65} + 0.106869u^{64} + \cdots - 20.1761u + 3.34856 \\ -0.00119563u^{65} + 0.00376866u^{64} + \cdots - 7.64885u - 0.509415 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.122676u^{65} + 0.107609u^{64} + \cdots - 27.3475u + 2.84535 \\ 0.00182854u^{65} + 0.0108591u^{64} + \cdots - 7.45992u - 0.466095 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.189112u^{65} - 0.193926u^{64} + \cdots - 72.1588u + 1.66494$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{66} + 37u^{64} + \cdots + 34177u + 6031$
c_2	$u^{66} + 4u^{65} + \cdots - 24135u + 4475$
c_3	$u^{66} + 15u^{64} + \cdots - 762u + 194$
c_4, c_8	$u^{66} + u^{65} + \cdots - 662856u + 191449$
c_5	$u^{66} - 2u^{65} + \cdots + 693008u + 64742$
c_6	$u^{66} - 7u^{65} + \cdots + 13349u + 1753$
c_7, c_{11}, c_{12}	$u^{66} + u^{65} + \cdots + 10u + 2$
c_9	$u^{66} + 42u^{64} + \cdots - 186u + 133$
c_{10}	$u^{66} + 2u^{65} + \cdots - 3u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{66} + 74y^{65} + \cdots + 2198907289y + 36372961$
c_2	$y^{66} + 30y^{65} + \cdots + 1844840225y + 20025625$
c_3	$y^{66} + 30y^{65} + \cdots + 1203768y + 37636$
c_4, c_8	$y^{66} - 97y^{65} + \cdots - 86769988822y + 36652719601$
c_5	$y^{66} + 54y^{65} + \cdots + 105454182252y + 4191526564$
c_6	$y^{66} - 5y^{65} + \cdots - 33068437y + 3073009$
c_7, c_{11}, c_{12}	$y^{66} + 73y^{65} + \cdots + 1936y + 4$
c_9	$y^{66} + 84y^{65} + \cdots + 1140060y + 17689$
c_{10}	$y^{66} + 8y^{65} + \cdots + 5y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.719214 + 0.726795I$ $a = 0.667037 - 0.189342I$ $b = 0.58269 + 1.34326I$	$7.90014 - 3.53613I$	0
$u = 0.719214 - 0.726795I$ $a = 0.667037 + 0.189342I$ $b = 0.58269 - 1.34326I$	$7.90014 + 3.53613I$	0
$u = 1.000810 + 0.393167I$ $a = 0.445291 + 0.276323I$ $b = 0.121198 + 1.142820I$	$6.61412 - 2.06871I$	0
$u = 1.000810 - 0.393167I$ $a = 0.445291 - 0.276323I$ $b = 0.121198 - 1.142820I$	$6.61412 + 2.06871I$	0
$u = -0.100267 + 0.894027I$ $a = 0.323394 - 0.202827I$ $b = -1.105080 + 0.474658I$	$-3.29612 + 4.30193I$	$-2.90250 - 5.35781I$
$u = -0.100267 - 0.894027I$ $a = 0.323394 + 0.202827I$ $b = -1.105080 - 0.474658I$	$-3.29612 - 4.30193I$	$-2.90250 + 5.35781I$
$u = 0.299100 + 1.065650I$ $a = -0.465280 + 0.427367I$ $b = 0.885760 - 0.541306I$	$1.072760 + 0.887374I$	0
$u = 0.299100 - 1.065650I$ $a = -0.465280 - 0.427367I$ $b = 0.885760 + 0.541306I$	$1.072760 - 0.887374I$	0
$u = 0.736910 + 0.833106I$ $a = -0.154013 - 0.406071I$ $b = 0.048259 + 0.142406I$	$-4.72831 - 2.78357I$	0
$u = 0.736910 - 0.833106I$ $a = -0.154013 + 0.406071I$ $b = 0.048259 - 0.142406I$	$-4.72831 + 2.78357I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.031039 + 0.840155I$ $a = 1.85359 + 1.62601I$ $b = -0.003236 - 0.680194I$	$3.97262 + 3.40486I$	$4.18167 - 4.59140I$
$u = 0.031039 - 0.840155I$ $a = 1.85359 - 1.62601I$ $b = -0.003236 + 0.680194I$	$3.97262 - 3.40486I$	$4.18167 + 4.59140I$
$u = -0.884713 + 0.792441I$ $a = -0.290736 - 0.175541I$ $b = -0.250039 + 0.780091I$	$-2.38051 + 3.17897I$	0
$u = -0.884713 - 0.792441I$ $a = -0.290736 + 0.175541I$ $b = -0.250039 - 0.780091I$	$-2.38051 - 3.17897I$	0
$u = -1.025410 + 0.618194I$ $a = 0.434725 + 0.292315I$ $b = 0.58073 - 1.29548I$	$5.39982 + 10.49560I$	0
$u = -1.025410 - 0.618194I$ $a = 0.434725 - 0.292315I$ $b = 0.58073 + 1.29548I$	$5.39982 - 10.49560I$	0
$u = 0.709657 + 0.233871I$ $a = -0.774283 + 0.930949I$ $b = -0.785269 - 0.823637I$	$-1.17874 - 4.65858I$	$-2.55428 + 6.96961I$
$u = 0.709657 - 0.233871I$ $a = -0.774283 - 0.930949I$ $b = -0.785269 + 0.823637I$	$-1.17874 + 4.65858I$	$-2.55428 - 6.96961I$
$u = 0.122656 + 1.284470I$ $a = 1.19317 - 1.11318I$ $b = 0.367723 + 0.911857I$	$7.95608 - 1.54033I$	0
$u = 0.122656 - 1.284470I$ $a = 1.19317 + 1.11318I$ $b = 0.367723 - 0.911857I$	$7.95608 + 1.54033I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.099520+1.299930I$ $a=-1.263130+0.472386I$ $b=\ 1.65574+0.04896I$	$1.90032+1.38290I$	0
$u=-0.099520-1.299930I$ $a=-1.263130-0.472386I$ $b=\ 1.65574-0.04896I$	$1.90032-1.38290I$	0
$u=-1.050640+0.773183I$ $a=\ 0.554794+0.085028I$ $b=-0.061668-1.143510I$	$5.73223-3.64210I$	0
$u=-1.050640-0.773183I$ $a=\ 0.554794-0.085028I$ $b=-0.061668+1.143510I$	$5.73223+3.64210I$	0
$u=-0.257605+1.310040I$ $a=\ 0.61970+1.84761I$ $b=\ 0.408078-1.269030I$	$3.27784+4.14237I$	0
$u=-0.257605-1.310040I$ $a=\ 0.61970-1.84761I$ $b=\ 0.408078+1.269030I$	$3.27784-4.14237I$	0
$u=-0.256934+1.331240I$ $a=\ 0.89879+1.42711I$ $b=\ 0.005042-1.066680I$	$3.47781+4.21864I$	0
$u=-0.256934-1.331240I$ $a=\ 0.89879-1.42711I$ $b=\ 0.005042+1.066680I$	$3.47781-4.21864I$	0
$u=-0.000032+0.630250I$ $a=-1.59776-0.89098I$ $b=\ 0.847679+0.431310I$	$-4.14836-3.94548I$	$3.59469-1.09624I$
$u=-0.000032-0.630250I$ $a=-1.59776+0.89098I$ $b=\ 0.847679-0.431310I$	$-4.14836+3.94548I$	$3.59469+1.09624I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.609931+0.139676I$ $a=-0.673201-0.264553I$ $b=-0.676484+0.756578I$	$-1.29771+0.89777I$	$-3.42699-0.34628I$
$u=-0.609931-0.139676I$ $a=-0.673201+0.264553I$ $b=-0.676484-0.756578I$	$-1.29771-0.89777I$	$-3.42699+0.34628I$
$u=\ 0.145209+0.606543I$ $a=-0.901280+0.557782I$ $b=\ 0.541206-0.434676I$	$0.92008+1.13491I$	$2.20955-3.15524I$
$u=\ 0.145209-0.606543I$ $a=-0.901280-0.557782I$ $b=\ 0.541206+0.434676I$	$0.92008-1.13491I$	$2.20955+3.15524I$
$u=\ 0.26234+1.40437I$ $a=\ 0.16144-2.09844I$ $b=\ 0.600829+1.061560I$	$4.05722-8.15344I$	0
$u=\ 0.26234-1.40437I$ $a=\ 0.16144+2.09844I$ $b=\ 0.600829-1.061560I$	$4.05722+8.15344I$	0
$u=-0.05689+1.47330I$ $a=-0.62930-1.82048I$ $b=\ 0.41585+1.91352I$	$3.49936-0.57536I$	0
$u=-0.05689-1.47330I$ $a=-0.62930+1.82048I$ $b=\ 0.41585-1.91352I$	$3.49936+0.57536I$	0
$u=-0.488892+0.192718I$ $a=-0.893543+0.019292I$ $b=-0.139326+0.947853I$	$-1.24935+1.26500I$	$-2.68638-5.49246I$
$u=-0.488892-0.192718I$ $a=-0.893543-0.019292I$ $b=-0.139326-0.947853I$	$-1.24935-1.26500I$	$-2.68638+5.49246I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.12093 + 1.51164I$ $a = 0.530235 - 1.280690I$ $b = 0.045836 + 1.095740I$	$7.62644 - 0.17479I$	0
$u = 0.12093 - 1.51164I$ $a = 0.530235 + 1.280690I$ $b = 0.045836 - 1.095740I$	$7.62644 + 0.17479I$	0
$u = 0.06739 + 1.52918I$ $a = 1.160410 - 0.441765I$ $b = -2.24825 + 0.57169I$	$9.05643 - 5.30948I$	0
$u = 0.06739 - 1.52918I$ $a = 1.160410 + 0.441765I$ $b = -2.24825 - 0.57169I$	$9.05643 + 5.30948I$	0
$u = -0.00862 + 1.54370I$ $a = -0.296046 + 0.976536I$ $b = -0.893174 - 0.864586I$	$11.61720 + 0.61500I$	0
$u = -0.00862 - 1.54370I$ $a = -0.296046 - 0.976536I$ $b = -0.893174 + 0.864586I$	$11.61720 - 0.61500I$	0
$u = 0.195033 + 0.385708I$ $a = 2.54059 + 1.12754I$ $b = 1.222030 - 0.505076I$	$2.44565 - 4.32755I$	$-4.06360 + 7.84691I$
$u = 0.195033 - 0.385708I$ $a = 2.54059 - 1.12754I$ $b = 1.222030 + 0.505076I$	$2.44565 + 4.32755I$	$-4.06360 - 7.84691I$
$u = 0.07716 + 1.59578I$ $a = 0.27315 + 1.39585I$ $b = -0.095540 - 1.067600I$	$3.86209 - 4.72236I$	0
$u = 0.07716 - 1.59578I$ $a = 0.27315 - 1.39585I$ $b = -0.095540 + 1.067600I$	$3.86209 + 4.72236I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.23416 + 1.60465I$ $a = \ 0.03143 + 1.76112I$ $b = -1.10469 - 1.89981I$	$15.6043 - 7.1193I$	0
$u = \ 0.23416 - 1.60465I$ $a = \ 0.03143 - 1.76112I$ $b = -1.10469 + 1.89981I$	$15.6043 + 7.1193I$	0
$u = \ 0.39220 + 1.57499I$ $a = -0.275695 + 1.083720I$ $b = -0.76486 - 1.26020I$	$13.0192 - 7.2655I$	0
$u = \ 0.39220 - 1.57499I$ $a = -0.275695 - 1.083720I$ $b = -0.76486 + 1.26020I$	$13.0192 + 7.2655I$	0
$u = -0.17671 + 1.62220I$ $a = -0.14551 + 1.47930I$ $b = \ 0.69950 - 1.45513I$	$5.91816 + 6.68858I$	0
$u = -0.17671 - 1.62220I$ $a = -0.14551 - 1.47930I$ $b = \ 0.69950 + 1.45513I$	$5.91816 - 6.68858I$	0
$u = \ 0.059185 + 0.350262I$ $a = \ 5.06425 + 0.33293I$ $b = \ 0.177862 + 0.732678I$	$4.91305 + 0.67289I$	$3.19953 + 3.49907I$
$u = \ 0.059185 - 0.350262I$ $a = \ 5.06425 - 0.33293I$ $b = \ 0.177862 - 0.732678I$	$4.91305 - 0.67289I$	$3.19953 - 3.49907I$
$u = -0.35609 + 1.61530I$ $a = -0.17183 - 1.59723I$ $b = -0.95933 + 1.58670I$	$12.6538 + 15.5854I$	0
$u = -0.35609 - 1.61530I$ $a = -0.17183 + 1.59723I$ $b = -0.95933 - 1.58670I$	$12.6538 - 15.5854I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.03231+1.67857I$ $a=-0.385959-1.234640I$ $b=-0.615246+0.819148I$	$12.94850+3.66040I$	0
$u=-0.03231-1.67857I$ $a=-0.385959+1.234640I$ $b=-0.615246-0.819148I$	$12.94850-3.66040I$	0
$u=-0.25759+1.74677I$ $a=-0.176853-1.081290I$ $b=-0.612531+1.225490I$	$14.3852+1.4981I$	0
$u=-0.25759-1.74677I$ $a=-0.176853+1.081290I$ $b=-0.612531-1.225490I$	$14.3852-1.4981I$	0
$u=-0.0108445+0.0640319I$ $a=\ \ 6.34245-4.58380I$ $b=-0.891282-0.887193I$	$-1.86232-1.13743I$	$2.50858-4.14640I$
$u=-0.0108445-0.0640319I$ $a=\ \ 6.34245+4.58380I$ $b=-0.891282+0.887193I$	$-1.86232+1.13743I$	$2.50858+4.14640I$

II. $I_2^u = \langle 5062u^{25} + 58938u^{24} + \cdots + 41551b + 49477,\ 39311u^{25} - 193434u^{24} + \cdots + 83102a - 142443,\ u^{26} + 14u^{24} + \cdots + 5u + 2\rangle$

(i) Arc colorings

$$a_8 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} -0.473045u^{25} + 2.32767u^{24} + \cdots + 2.54894u + 1.71407 \\ -0.121826u^{25} - 1.41845u^{24} + \cdots - 3.21494u - 1.19075 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.594871u^{25} + 0.909220u^{24} + \cdots - 0.666001u + 0.523321 \\ -0.121826u^{25} - 1.41845u^{24} + \cdots - 3.21494u - 1.19075 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^2 + 1 \\ u^4 + 2u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.456391u^{25} + 0.655123u^{24} + \cdots - 1.20832u + 0.685627 \\ 0.377440u^{25} + 0.557002u^{24} + \cdots + 5.08216u + 1.32351 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -1.20456u^{25} + 0.716493u^{24} + \cdots + 2.54892u + 2.39998 \\ -1.67300u^{25} - 0.556208u^{24} + \cdots - 3.95942u - 1.43426 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -1.20456u^{25} + 0.716493u^{24} + \cdots + 2.54892u + 2.39998 \\ -0.744386u^{25} - 1.86145u^{24} + \cdots - 5.13278u - 2.86725 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.58041u^{25} + 1.50870u^{24} + \cdots + 13.7991u + 3.74127 \\ -0.122259u^{25} + 0.763784u^{24} + \cdots - 5.59698u - 1.14955 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.797321u^{25} + 1.92681u^{24} + \cdots + 12.8711u + 3.88810 \\ -0.700633u^{25} - 0.267069u^{24} + \cdots - 10.5471u - 3.02869 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{4419}{1123}u^{25} + \frac{6377}{1123}u^{24} + \cdots + \frac{51915}{1123}u - \frac{4786}{1123}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{26} - 5u^{25} + \cdots + 3u + 1$
c_2	$u^{26} - 3u^{25} + \cdots + u + 1$
c_3	$u^{26} - u^{25} + \cdots + 5u + 12$
c_4	$u^{26} - 2u^{25} + \cdots + 9u^2 + 1$
c_5	$u^{26} - 3u^{25} + \cdots - 5u + 14$
c_6	$u^{26} + 3u^{24} + \cdots + 5u + 1$
c_7	$u^{26} + 14u^{24} + \cdots - 5u + 2$
c_8	$u^{26} + 2u^{25} + \cdots + 9u^2 + 1$
c_9	$u^{26} + u^{25} + \cdots + 82u + 19$
c_{10}	$u^{26} - u^{25} + \cdots + u + 1$
c_{11}, c_{12}	$u^{26} + 14u^{24} + \cdots + 5u + 2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{26}+9y^{25}+\cdots-15y+1$
c_2	$y^{26}+y^{25}+\cdots+9y+1$
c_3	$y^{26}+21y^{25}+\cdots+2039y+144$
c_4, c_8	$y^{26}-14y^{25}+\cdots+18y+1$
c_5	$y^{26}+9y^{25}+\cdots+59y+196$
c_6	$y^{26}+6y^{25}+\cdots-21y+1$
c_7, c_{11}, c_{12}	$y^{26}+28y^{25}+\cdots+23y+4$
c_9	$y^{26}+31y^{25}+\cdots+3536y+361$
c_{10}	$y^{26}+7y^{25}+\cdots+13y+1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.679415+0.890805I$ $a=\ 0.372921-0.144615I$ $b=\ 0.229522-0.386355I$	$-2.78750+2.64932I$	$-3.02870+1.63316I$
$u=-0.679415-0.890805I$ $a=\ 0.372921+0.144615I$ $b=\ 0.229522+0.386355I$	$-2.78750-2.64932I$	$-3.02870-1.63316I$
$u=\ 0.886701+0.747995I$ $a=\ 0.172666-0.374205I$ $b=\ 0.239970+0.649123I$	$-4.40011-3.18802I$	$-0.46336+8.20324I$
$u=\ 0.886701-0.747995I$ $a=\ 0.172666+0.374205I$ $b=\ 0.239970-0.649123I$	$-4.40011+3.18802I$	$-0.46336-8.20324I$
$u=-0.175460+1.178730I$ $a=-2.08661-1.09615I$ $b=\ 0.713234+0.634073I$	$4.51834+5.02048I$	$3.74875-8.49324I$
$u=-0.175460-1.178730I$ $a=-2.08661+1.09615I$ $b=\ 0.713234-0.634073I$	$4.51834-5.02048I$	$3.74875+8.49324I$
$u=-0.307077+0.739170I$ $a=-0.741015+1.175360I$ $b=-0.664463+0.138102I$	$2.86300-3.17507I$	$-2.41239+1.76710I$
$u=-0.307077-0.739170I$ $a=-0.741015-1.175360I$ $b=-0.664463-0.138102I$	$2.86300+3.17507I$	$-2.41239-1.76710I$
$u=\ 0.010985+1.247270I$ $a=\ 0.475473-0.250521I$ $b=-1.37148+0.43109I$	$-1.88055+3.86499I$	$1.43322-2.58190I$
$u=\ 0.010985-1.247270I$ $a=\ 0.475473+0.250521I$ $b=-1.37148-0.43109I$	$-1.88055-3.86499I$	$1.43322+2.58190I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.173200 + 1.313360I$ $a = -1.21882 + 0.78462I$ $b = -0.349538 - 0.764374I$	$7.89081 - 0.76567I$	$2.98567 - 3.33428I$
$u = \ 0.173200 - 1.313360I$ $a = -1.21882 - 0.78462I$ $b = -0.349538 + 0.764374I$	$7.89081 + 0.76567I$	$2.98567 + 3.33428I$
$u = -0.165687 + 1.355170I$ $a = \ 1.206480 + 0.436588I$ $b = -1.51317 - 0.84770I$	$2.09121 + 0.65320I$	$-1.11339 + 2.15886I$
$u = -0.165687 - 1.355170I$ $a = \ 1.206480 - 0.436588I$ $b = -1.51317 + 0.84770I$	$2.09121 - 0.65320I$	$-1.11339 - 2.15886I$
$u = -0.201007 + 1.363480I$ $a = -0.26482 - 2.17381I$ $b = -0.71515 + 1.63873I$	$2.57091 + 3.75146I$	$-6.68429 - 1.45320I$
$u = -0.201007 - 1.363480I$ $a = -0.26482 + 2.17381I$ $b = -0.71515 - 1.63873I$	$2.57091 - 3.75146I$	$-6.68429 + 1.45320I$
$u = \ 0.411195 + 0.450978I$ $a = -2.25148 - 1.07557I$ $b = -0.096250 - 0.676579I$	$4.73328 - 1.40628I$	$-0.66080 + 5.33743I$
$u = \ 0.411195 - 0.450978I$ $a = -2.25148 + 1.07557I$ $b = -0.096250 + 0.676579I$	$4.73328 + 1.40628I$	$-0.66080 - 5.33743I$
$u = \ 0.122485 + 0.534083I$ $a = -1.33573 - 1.08771I$ $b = \ 0.918762 + 0.480757I$	$-4.52448 - 4.18007I$	$-12.9437 + 8.1626I$
$u = \ 0.122485 - 0.534083I$ $a = -1.33573 + 1.08771I$ $b = \ 0.918762 - 0.480757I$	$-4.52448 + 4.18007I$	$-12.9437 - 8.1626I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.26482 + 1.52255I$ $a = -0.06854 + 1.67093I$ $b = -0.541685 - 1.128100I$	$2.91632 - 6.91833I$	$-1.62284 + 5.68817I$
$u = \ 0.26482 - 1.52255I$ $a = -0.06854 - 1.67093I$ $b = -0.541685 + 1.128100I$	$2.91632 + 6.91833I$	$-1.62284 - 5.68817I$
$u = -0.414168 + 0.081461I$ $a = \ 0.659087 + 0.243294I$ $b = \ 0.97840 - 1.10370I$	$-2.20002 + 1.34478I$	$-16.4489 - 6.7100I$
$u = -0.414168 - 0.081461I$ $a = \ 0.659087 - 0.243294I$ $b = \ 0.97840 + 1.10370I$	$-2.20002 - 1.34478I$	$-16.4489 + 6.7100I$
$u = \ 0.07342 + 1.68039I$ $a = \ 0.330396 - 1.027770I$ $b = \ 0.671843 + 0.758050I$	$12.88280 - 3.26432I$	$0.71067 - 4.90499I$
$u = \ 0.07342 - 1.68039I$ $a = \ 0.330396 + 1.027770I$ $b = \ 0.671843 - 0.758050I$	$12.88280 + 3.26432I$	$0.71067 + 4.90499I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{26}-5u^{25}+\cdots+3u+1)(u^{66}+37u^{64}+\cdots+34177u+6031)$
c_2	$(u^{26}-3u^{25}+\cdots+u+1)(u^{66}+4u^{65}+\cdots-24135u+4475)$
c_3	$(u^{26}-u^{25}+\cdots+5u+12)(u^{66}+15u^{64}+\cdots-762u+194)$
c_4	$(u^{26}-2u^{25}+\cdots+9u^2+1)(u^{66}+u^{65}+\cdots-662856u+191449)$
c_5	$(u^{26}-3u^{25}+\cdots-5u+14)(u^{66}-2u^{65}+\cdots+693008u+64742)$
c_6	$(u^{26}+3u^{24}+\cdots+5u+1)(u^{66}-7u^{65}+\cdots+13349u+1753)$
c_7	$(u^{26}+14u^{24}+\cdots-5u+2)(u^{66}+u^{65}+\cdots+10u+2)$
c_8	$(u^{26}+2u^{25}+\cdots+9u^2+1)(u^{66}+u^{65}+\cdots-662856u+191449)$
c_9	$(u^{26}+u^{25}+\cdots+82u+19)(u^{66}+42u^{64}+\cdots-186u+133)$
c_{10}	$(u^{26}-u^{25}+\cdots+u+1)(u^{66}+2u^{65}+\cdots-3u+1)$
c_{11}, c_{12}	$(u^{26}+14u^{24}+\cdots+5u+2)(u^{66}+u^{65}+\cdots+10u+2)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{26}+9y^{25}+\cdots-15y+1)$ $\cdot(y^{66}+74y^{65}+\cdots+2198907289y+36372961)$
c_2	$(y^{26}+y^{25}+\cdots+9y+1)$ $\cdot(y^{66}+30y^{65}+\cdots+1844840225y+20025625)$
c_3	$(y^{26}+21y^{25}+\cdots+2039y+144)$ $\cdot(y^{66}+30y^{65}+\cdots+1203768y+37636)$
c_4, c_8	$(y^{26}-14y^{25}+\cdots+18y+1)$ $\cdot(y^{66}-97y^{65}+\cdots-86769988822y+36652719601)$
c_5	$(y^{26}+9y^{25}+\cdots+59y+196)$ $\cdot(y^{66}+54y^{65}+\cdots+105454182252y+4191526564)$
c_6	$(y^{26}+6y^{25}+\cdots-21y+1)$ $\cdot(y^{66}-5y^{65}+\cdots-33068437y+3073009)$
c_7, c_{11}, c_{12}	$(y^{26}+28y^{25}+\cdots+23y+4)(y^{66}+73y^{65}+\cdots+1936y+4)$
c_9	$(y^{26}+31y^{25}+\cdots+3536y+361)$ $\cdot(y^{66}+84y^{65}+\cdots+1140060y+17689)$
c_{10}	$(y^{26}+7y^{25}+\cdots+13y+1)(y^{66}+8y^{65}+\cdots+5y+1)$