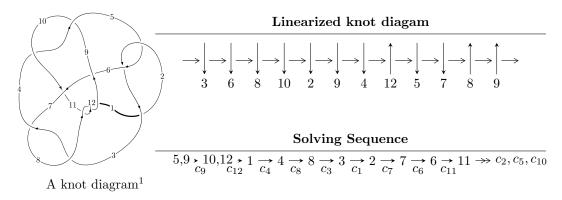
$12n_{0410} \ (K12n_{0410})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.43647 \times 10^{106} u^{70} + 9.27917 \times 10^{106} u^{69} + \dots + 4.05492 \times 10^{107} b - 2.66090 \times 10^{107}, \\ &- 2.33553 \times 10^{108} u^{70} - 2.92909 \times 10^{108} u^{69} + \dots + 4.05492 \times 10^{107} a + 1.64345 \times 10^{109}, \\ &u^{71} + u^{70} + \dots - 18u + 1 \rangle \\ I_2^u &= \langle u^2 + b + 1, \ u^{15} + u^{14} + \dots + a - 4, \\ &u^{16} + 10u^{14} + 40u^{12} + u^{11} + 82u^{10} + 7u^9 + 92u^8 + 18u^7 + 58u^6 + 21u^5 + 25u^4 + 11u^3 + 10u^2 + 2u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 87 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.
$$I_1^u = \langle -3.44 \times 10^{106} u^{70} + 9.28 \times 10^{106} u^{69} + \dots + 4.05 \times 10^{107} b - 2.66 \times 10^{107}, \ -2.34 \times 10^{108} u^{70} - 2.93 \times 10^{108} u^{69} + \dots + 4.05 \times 10^{107} a + 1.64 \times 10^{109}, \ u^{71} + u^{70} + \dots - 18u + 1 \rangle$$

(i) Arc colorings

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

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 5.75975u^{70} + 7.22354u^{69} + \dots + 413.326u - 40.5299 \\ 0.0847481u^{70} - 0.228837u^{69} + \dots - 1.63551u + 0.656214 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 5.84450u^{70} + 6.99470u^{69} + \dots + 411.690u - 39.8736 \\ 0.0847481u^{70} - 0.228837u^{69} + \dots - 1.63551u + 0.656214 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 3.49699u^{70} + 4.19855u^{69} + \dots + 350.333u - 33.4246 \\ 0.239548u^{70} + 0.356147u^{69} + \dots + 3.79911u + 0.0294177 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.732278u^{70} + 1.28940u^{69} + \dots + 57.6526u - 22.5177 \\ -0.0601700u^{70} - 0.435875u^{69} + \dots + 18.4320u - 2.09649 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -3.03287u^{70} - 3.14673u^{69} + \dots + 288.328u + 33.4675 \\ 0.443733u^{70} + 0.847315u^{69} + \dots - 10.9879u + 0.729411 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 3.33586u^{70} + 3.74761u^{69} + \dots + 351.145u - 33.2572 \\ 0.284126u^{70} + 0.525249u^{69} + \dots - 0.443567u + 0.486594 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 3.61999u^{70} + 4.27286u^{69} + \dots + 350.702u - 32.7706 \\ 0.284126u^{70} + 0.525249u^{69} + \dots - 0.443567u + 0.486594 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 3.08919u^{70} + 3.79307u^{69} + \dots + 183.569u - 16.3818 \\ -0.264976u^{70} - 0.884934u^{69} + \dots - 4.44816u + 0.538795 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.714658u^{70} + 0.411160u^{69} + \cdots 172.611u + 3.21683$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{71} + 37u^{70} + \dots + 39u + 1$
c_2, c_5	$u^{71} + u^{70} + \dots - 5u + 1$
c_3, c_7	$u^{71} + 2u^{70} + \dots + 938u + 419$
c_4, c_9	$u^{71} + u^{70} + \dots - 18u + 1$
c_6	$u^{71} - 11u^{70} + \dots + 45238u + 33013$
c_8, c_{11}, c_{12}	$u^{71} - 3u^{70} + \dots + 182u + 73$
c_{10}	$u^{71} + 3u^{70} + \dots - 1366u + 113$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{71} + 3y^{70} + \dots + 75y - 1$
c_2, c_5	$y^{71} - 37y^{70} + \dots + 39y - 1$
c_3, c_7	$y^{71} + 32y^{70} + \dots - 3750944y - 175561$
c_4, c_9	$y^{71} + 63y^{70} + \dots + 108y - 1$
c_6	$y^{71} - 9y^{70} + \dots + 48618179848y - 1089858169$
c_8, c_{11}, c_{12}	$y^{71} - 29y^{70} + \dots + 317240y - 5329$
c_{10}	$y^{71} - y^{70} + \dots + 908846y - 12769$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.215895 + 0.983718I		
a = 0.589334 - 0.165404I	1.75447 + 1.33869I	0
b = -0.879742 - 0.511318I		
u = 0.215895 - 0.983718I		
a = 0.589334 + 0.165404I	1.75447 - 1.33869I	0
b = -0.879742 + 0.511318I		
u = -1.034460 + 0.273032I		
a = -0.310181 + 1.214850I	-3.60320 + 10.88280I	0
b = 1.25991 + 0.78950I		
u = -1.034460 - 0.273032I		
a = -0.310181 - 1.214850I	-3.60320 - 10.88280I	0
b = 1.25991 - 0.78950I		
u = 0.863903 + 0.285907I		
a = 0.419083 + 0.810149I	-5.98210 - 3.93114I	-10.12837 + 4.65462I
b = 0.502982 + 1.144460I		
u = 0.863903 - 0.285907I		
a = 0.419083 - 0.810149I	-5.98210 + 3.93114I	-10.12837 - 4.65462I
b = 0.502982 - 1.144460I		
u = -0.891768 + 0.070118I		
a = 0.15503 - 1.61433I	-5.06777 - 1.72842I	-9.03248 + 1.95766I
b = 0.865255 - 0.883952I		
u = -0.891768 - 0.070118I		
a = 0.15503 + 1.61433I	-5.06777 + 1.72842I	-9.03248 - 1.95766I
b = 0.865255 + 0.883952I		
u = 0.858375 + 0.211623I		
a = -0.41891 - 1.51444I	-0.51051 - 5.75064I	-3.89282 + 5.23747I
b = 1.096520 - 0.693922I		
u = 0.858375 - 0.211623I		
a = -0.41891 + 1.51444I	-0.51051 + 5.75064I	-3.89282 - 5.23747I
b = 1.096520 + 0.693922I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.495327 + 1.001070I		
a = 0.956532 + 0.720660I	-3.81338 - 0.91720I	0
b = -0.499506 + 0.873457I		
u = 0.495327 - 1.001070I		
a = 0.956532 - 0.720660I	-3.81338 + 0.91720I	0
b = -0.499506 - 0.873457I		
u = 0.852063 + 0.003332I		
a = 0.570898 - 0.952541I	-4.83336 - 4.67682I	-8.91178 + 3.62804I
b = 0.941084 - 0.848655I		
u = 0.852063 - 0.003332I		
a = 0.570898 + 0.952541I	-4.83336 + 4.67682I	-8.91178 - 3.62804I
b = 0.941084 + 0.848655I		
u = 0.728501 + 0.383628I		
a = 0.609475 + 0.530243I	1.66148 + 1.60219I	-0.85852 - 4.44801I
b = -1.021450 - 0.201318I		
u = 0.728501 - 0.383628I		
a = 0.609475 - 0.530243I	1.66148 - 1.60219I	-0.85852 + 4.44801I
b = -1.021450 + 0.201318I		
u = -0.801396 + 0.186918I		
a = 0.435494 + 0.875125I	-0.08587 - 1.45375I	-4.06625 + 0.26026I
b = -0.579792 + 0.108548I		
u = -0.801396 - 0.186918I		
a = 0.435494 - 0.875125I	-0.08587 + 1.45375I	-4.06625 - 0.26026I
b = -0.579792 - 0.108548I		
u = -0.029612 + 1.179580I		
a = -0.715627 + 0.669083I	4.02651 - 1.18106I	0
b = 1.015610 - 0.624913I		
u = -0.029612 - 1.179580I		
a = -0.715627 - 0.669083I	4.02651 + 1.18106I	0
b = 1.015610 + 0.624913I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.044105 + 1.211070I		
a = -2.72874 - 0.40673I	2.77599 - 4.56849I	0
b = 0.734871 - 0.897217I		
u = 0.044105 - 1.211070I		
a = -2.72874 + 0.40673I	2.77599 + 4.56849I	0
b = 0.734871 + 0.897217I		
u = 0.373923 + 1.168140I		
a = -0.735197 + 0.107279I	4.27301 - 5.82007I	0
b = 0.917139 - 0.074511I		
u = 0.373923 - 1.168140I		
a = -0.735197 - 0.107279I	4.27301 + 5.82007I	0
b = 0.917139 + 0.074511I		
u = -0.310509 + 1.196830I		
a = 0.839804 - 0.739127I	1.34885 + 3.63857I	0
b = -0.785280 - 0.707355I		
u = -0.310509 - 1.196830I		
a = 0.839804 + 0.739127I	1.34885 - 3.63857I	0
b = -0.785280 + 0.707355I		
u = 0.075611 + 1.234620I		
a = 5.12968 + 2.04707I	7.70644 - 3.86757I	0
b = -0.673053 + 0.192726I		
u = 0.075611 - 1.234620I		
a = 5.12968 - 2.04707I	7.70644 + 3.86757I	0
b = -0.673053 - 0.192726I		
u = -0.410342 + 1.186330I		
a = -1.72235 + 1.94541I	2.97939 + 5.92999I	0
b = 0.608459 + 0.094132I		
u = -0.410342 - 1.186330I		
a = -1.72235 - 1.94541I	2.97939 - 5.92999I	0
b = 0.608459 - 0.094132I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.729742 + 0.114637I		
a = 0.618046 - 0.750040I	-1.95583 + 0.14817I	-7.00132 - 0.69470I
b = 0.630374 - 0.759705I		
u = -0.729742 - 0.114637I		
a = 0.618046 + 0.750040I	-1.95583 - 0.14817I	-7.00132 + 0.69470I
b = 0.630374 + 0.759705I		
u = -0.021725 + 1.263670I		
a = -0.677026 - 0.120394I	8.01619 + 2.99746I	0
b = -0.752422 + 0.007514I		
u = -0.021725 - 1.263670I		
a = -0.677026 + 0.120394I	8.01619 - 2.99746I	0
b = -0.752422 - 0.007514I		
u = -0.413858 + 1.213910I		
a = 1.27530 - 1.84827I	-1.55000 + 6.39536I	0
b = -0.805605 - 0.898461I		
u = -0.413858 - 1.213910I		
a = 1.27530 + 1.84827I	-1.55000 - 6.39536I	0
b = -0.805605 + 0.898461I		
u = 0.158281 + 1.275040I		
a = -2.74022 - 0.73963I	6.58304 - 0.58218I	0
b = 0.811606 + 0.350669I		
u = 0.158281 - 1.275040I		
a = -2.74022 + 0.73963I	6.58304 + 0.58218I	0
b = 0.811606 - 0.350669I		
u = -0.790440 + 1.070780I		
a = 0.367717 - 0.165936I	-1.27848 - 4.71003I	0
b = -1.28280 + 0.61070I		
u = -0.790440 - 1.070780I		
a = 0.367717 + 0.165936I	-1.27848 + 4.71003I	0
b = -1.28280 - 0.61070I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.384604 + 1.283090I		
a = 0.905704 + 0.769999I	-0.82831 - 9.10842I	0
b = -0.892660 + 0.805268I		
u = 0.384604 - 1.283090I		
a = 0.905704 - 0.769999I	-0.82831 + 9.10842I	0
b = -0.892660 - 0.805268I		
u = 0.411196 + 1.277040I		
a = -0.287177 + 0.546454I	-0.870786 + 0.150985I	0
b = -1.036780 - 0.878537I		
u = 0.411196 - 1.277040I		
a = -0.287177 - 0.546454I	-0.870786 - 0.150985I	0
b = -1.036780 + 0.878537I		
u = -0.062315 + 1.356300I		
a = -0.536885 - 0.568354I	4.73209 + 4.54811I	0
b = 0.622978 + 0.855958I $u = -0.062315 - 1.356300I$		
	4 70000 4 740117	0
a = -0.536885 + 0.568354I	4.73209 - 4.54811I	0
b = 0.622978 - 0.855958I $u = -0.271944 + 1.345690I$		
a = -0.271944 + 1.345090I $a = -0.490299 - 0.243669I$	4.01607 + 9.950907	0
	4.81607 + 2.25039I	0
b = 0.495860 - 0.020177I $u = -0.271944 - 1.345690I$		
a = -0.490299 + 0.243669I $a = -0.490299 + 0.243669I$	4.81607 - 2.25039I	0
·	4.81007 - 2.250391	U
b = 0.495860 + 0.020177I $u = 0.182403 + 0.589273I$		
a = 0.192403 + 0.393273I $a = 0.996728 - 0.100964I$	1.70326 + 1.36799I	0.40449 - 3.56103I
b = -0.991109 - 0.385570I	1.10020 1.001991	0.10110
u = 0.182403 - 0.589273I		
a = 0.996728 + 0.100964I	1.70326 - 1.36799I	0.40449 + 3.56103I
b = -0.991109 + 0.385570I	1.10020 1.001331	0.10110 0.001001
0 - 0.331103 + 0.3033101		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.431353 + 1.324400I		
a = 0.293265 + 0.052341I	-0.70979 + 3.01801I	0
b = -0.943113 + 0.822147I		
u = -0.431353 - 1.324400I		
a = 0.293265 - 0.052341I	-0.70979 - 3.01801I	0
b = -0.943113 - 0.822147I		
u = -0.297751 + 1.379490I		
a = -0.354498 - 0.522063I	2.81600 + 3.85009I	0
b = -0.529414 + 0.965808I		
u = -0.297751 - 1.379490I		
a = -0.354498 + 0.522063I	2.81600 - 3.85009I	0
b = -0.529414 - 0.965808I		
u = 0.072525 + 0.577336I		
a = 1.009780 - 0.310556I	1.70099 + 1.36936I	0.45558 - 4.27250I
b = -1.024930 - 0.366527I		
u = 0.072525 - 0.577336I		
a = 1.009780 + 0.310556I	1.70099 - 1.36936I	0.45558 + 4.27250I
b = -1.024930 + 0.366527I		
u = 0.38135 + 1.40084I		
a = 1.72461 + 1.25646I	4.58064 - 10.24330I	0
b = -1.136280 + 0.778925I		
u = 0.38135 - 1.40084I		
a = 1.72461 - 1.25646I	4.58064 + 10.24330I	0
b = -1.136280 - 0.778925I		
u = 0.35642 + 1.47308I		
a = -0.357872 + 0.562711I	-0.32317 - 8.36888I	0
b = -0.58989 - 1.37575I		
u = 0.35642 - 1.47308I		
a = -0.357872 - 0.562711I	-0.32317 + 8.36888I	0
b = -0.58989 + 1.37575I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.44180 + 1.45915I		
a = 1.55032 - 1.07079I	1.8628 + 16.1602I	0
b = -1.26177 - 0.88192I		
u = -0.44180 - 1.45915I		
a = 1.55032 + 1.07079I	1.8628 - 16.1602I	0
b = -1.26177 + 0.88192I		
u = -0.384489		
a = 0.931181	-0.795110	-12.9180
b = 0.216711		
u = -0.01278 + 1.63519I		
a = -1.81847 - 0.01243I	9.71665 + 1.57100I	0
b = 1.95257 + 0.19361I		
u = -0.01278 - 1.63519I		
a = -1.81847 + 0.01243I	9.71665 - 1.57100I	0
b = 1.95257 - 0.19361I		
u = 0.07124 + 1.74068I		
a = -1.55530 - 0.11713I	10.11340 - 1.78495I	0
b = 1.62577 - 0.01058I		
u = 0.07124 - 1.74068I		
a = -1.55530 + 0.11713I	10.11340 + 1.78495I	0
b = 1.62577 + 0.01058I		
u = 0.018862 + 0.200440I		
a = -3.71179 - 0.53258I	-0.32381 + 4.17151I	-4.56463 - 9.46069I
b = -0.727811 - 0.911451I		
u = 0.018862 - 0.200440I		
a = -3.71179 + 0.53258I	-0.32381 - 4.17151I	-4.56463 + 9.46069I
b = -0.727811 + 0.911451I		
u = 0.0994581 + 0.0263391I		
a = 4.2481 + 18.4423I	4.07198 + 3.05309I	-15.3128 - 6.7632I
b = 0.724058 + 0.102943I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u =	0.0994581 - 0.0263391I		
a =	4.2481 - 18.4423I	4.07198 - 3.05309I	-15.3128 + 6.7632I
b =	0.724058 - 0.102943I		

II.
$$I_2^u = \langle u^2 + b + 1, \ u^{15} + u^{14} + \dots + a - 4, \ u^{16} + 10u^{14} + \dots + 2u + 1 \rangle$$

(i) Arc colorings

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

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -u^{15} - u^{14} + \dots - 5u + 4 \\ -u^{2} - 1 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{15} - u^{14} + \dots - 5u + 3 \\ -u^{2} - 1 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{15} - 2u^{14} + \dots + 2u - 4 \\ u^{4} + 2u^{2} + 1 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 3u^{15} + 28u^{13} + \dots + 17u + 5 \\ -u^{13} - 8u^{11} + \dots - 3u - 1 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 2u^{15} + 19u^{13} + \dots + 12u^{2} + 10u \\ u^{14} - u^{13} + \dots + 2u^{2} - u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{15} - u^{14} + \dots + 3u - 4 \\ -u^{14} - 8u^{12} + \dots - 3u^{2} - u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} u^{15} - 2u^{14} + \dots + 2u - 4 \\ -u^{14} - 8u^{12} + \dots - 3u^{2} - u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{14} - 8u^{12} + \dots - 2u^{2} + 2 \\ u^{6} + 3u^{4} + 2u^{2} \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-2u^{15} + 4u^{14} - 21u^{13} + 35u^{12} - 88u^{11} + 121u^{10} - 184u^9 + 211u^8 - 196u^7 + 193u^6 - 95u^5 + 87u^4 - 14u^3 + 25u^2 - 2u + 10$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16} - 8u^{15} + \dots - 11u + 1$
c_2	$u^{16} - 4u^{14} + \dots + u + 1$
<i>c</i> ₃	$u^{16} + u^{15} + \dots + 6u^2 + 1$
c_4	$u^{16} + 10u^{14} + \dots - 2u + 1$
<i>c</i> ₅	$u^{16} - 4u^{14} + \dots - u + 1$
<i>c</i> ₆	$u^{16} + 4u^{15} + \dots + 8u + 1$
	$u^{16} - u^{15} + \dots + 6u^2 + 1$
c ₈	$u^{16} - 4u^{15} + \dots - 4u + 1$
<i>c</i> ₉	$u^{16} + 10u^{14} + \dots + 2u + 1$
c_{10}	$u^{16} + 2u^{14} + \dots + 6u + 1$
c_{11}, c_{12}	$u^{16} + 4u^{15} + \dots + 4u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{16} + 8y^{15} + \dots + y + 1$
c_2, c_5	$y^{16} - 8y^{15} + \dots - 11y + 1$
c_3, c_7	$y^{16} + 13y^{15} + \dots + 12y + 1$
c_4, c_9	$y^{16} + 20y^{15} + \dots + 16y + 1$
c_6	$y^{16} + 8y^{15} + \dots - 20y + 1$
c_8, c_{11}, c_{12}	$y^{16} - 16y^{15} + \dots - 12y + 1$
c_{10}	$y^{16} + 4y^{15} + \dots - 10y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.538323 + 0.609436I		
a = 0.301986 - 0.587035I	-0.33171 + 3.10177I	-4.27402 - 2.35012I
b = -0.918380 - 0.656147I		
u = 0.538323 - 0.609436I		
a = 0.301986 + 0.587035I	-0.33171 - 3.10177I	-4.27402 + 2.35012I
b = -0.918380 + 0.656147I		
u = -0.048339 + 1.222850I		
a = 1.81741 - 1.11259I	7.19096 + 3.42244I	-3.10678 - 2.43444I
b = 0.493024 + 0.118223I		
u = -0.048339 - 1.222850I		
a = 1.81741 + 1.11259I	7.19096 - 3.42244I	-3.10678 + 2.43444I
b = 0.493024 - 0.118223I		
u = 0.291351 + 1.201680I		
a = -1.87567 - 0.05805I	1.84258 - 6.14957I	-5.00852 + 7.34248I
b = 0.359153 - 0.700221I		
u = 0.291351 - 1.201680I		
a = -1.87567 + 0.05805I	1.84258 + 6.14957I	-5.00852 - 7.34248I
b = 0.359153 + 0.700221I		
u = -0.177579 + 1.300220I		
a = -0.693391 - 0.115475I	4.53158 + 3.04680I	-2.03030 - 5.70697I
b = 0.659034 + 0.461783I		
u = -0.177579 - 1.300220I		
a = -0.693391 + 0.115475I	4.53158 - 3.04680I	-2.03030 + 5.70697I
b = 0.659034 - 0.461783I		
u = -0.470847 + 0.357752I		
a = 0.315886 - 0.653261I	1.130760 - 0.806623I	-6.80428 - 2.97898I
b = -1.093710 + 0.336893I		
u = -0.470847 - 0.357752I		
a = 0.315886 + 0.653261I	1.130760 + 0.806623I	-6.80428 + 2.97898I
b = -1.093710 - 0.336893I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.01876 + 1.58439I		
a = -1.99295 + 0.09965I	11.46500 - 2.59376I	3.82711 + 3.90143I
b = 1.50993 + 0.05944I		
u = -0.01876 - 1.58439I		
a = -1.99295 - 0.09965I	11.46500 + 2.59376I	3.82711 - 3.90143I
b = 1.50993 - 0.05944I		
u = -0.076930 + 0.383712I		
a = 4.77737 - 0.98552I	4.38379 - 2.94039I	7.82295 - 1.05341I
b = -0.858683 + 0.059038I		
u = -0.076930 - 0.383712I		
a = 4.77737 + 0.98552I	4.38379 + 2.94039I	7.82295 + 1.05341I
b = -0.858683 - 0.059038I		
u = -0.03722 + 1.68849I		
a = -1.65065 + 0.07468I	9.26542 + 1.37057I	-9.92616 + 2.04030I
b = 1.84963 + 0.12569I		
u = -0.03722 - 1.68849I		
a = -1.65065 - 0.07468I	9.26542 - 1.37057I	-9.92616 - 2.04030I
b = 1.84963 - 0.12569I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{16} - 8u^{15} + \dots - 11u + 1)(u^{71} + 37u^{70} + \dots + 39u + 1) \right $
c_2	$ (u^{16} - 4u^{14} + \dots + u + 1)(u^{71} + u^{70} + \dots - 5u + 1) $
<i>c</i> 3	$(u^{16} + u^{15} + \dots + 6u^2 + 1)(u^{71} + 2u^{70} + \dots + 938u + 419)$
C ₄	$(u^{16} + 10u^{14} + \dots - 2u + 1)(u^{71} + u^{70} + \dots - 18u + 1)$
<i>C</i> ₅	$(u^{16} - 4u^{14} + \dots - u + 1)(u^{71} + u^{70} + \dots - 5u + 1)$
c_6	$(u^{16} + 4u^{15} + \dots + 8u + 1)(u^{71} - 11u^{70} + \dots + 45238u + 33013)$
c_7	$ (u^{16} - u^{15} + \dots + 6u^2 + 1)(u^{71} + 2u^{70} + \dots + 938u + 419) $
<i>c</i> ₈	$ (u^{16} - 4u^{15} + \dots - 4u + 1)(u^{71} - 3u^{70} + \dots + 182u + 73) $
<i>c</i> 9	$ (u^{16} + 10u^{14} + \dots + 2u + 1)(u^{71} + u^{70} + \dots - 18u + 1) $
c_{10}	$(u^{16} + 2u^{14} + \dots + 6u + 1)(u^{71} + 3u^{70} + \dots - 1366u + 113)$
c_{11}, c_{12}	$(u^{16} + 4u^{15} + \dots + 4u + 1)(u^{71} - 3u^{70} + \dots + 182u + 73)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$y^{16} + 8y^{15} + \dots + y + 1)(y^{71} + 3y^{70} + \dots + 75y - 1)$	
c_2,c_5	$(y^{16} - 8y^{15} + \dots - 11y + 1)(y^{71} - 37y^{70} + \dots + 39y - 1)$	
c_3, c_7	$(y^{16} + 13y^{15} + \dots + 12y + 1)$ $\cdot (y^{71} + 32y^{70} + \dots - 3750944y - 175561)$	
c_4, c_9	$(y^{16} + 20y^{15} + \dots + 16y + 1)(y^{71} + 63y^{70} + \dots + 108y - 1)$	
c_6	$(y^{16} + 8y^{15} + \dots - 20y + 1)$ $\cdot (y^{71} - 9y^{70} + \dots + 48618179848y - 1089858169)$	
c_8, c_{11}, c_{12}	$(y^{16} - 16y^{15} + \dots - 12y + 1)(y^{71} - 29y^{70} + \dots + 317240y - 5329)$	
c_{10}	$(y^{16} + 4y^{15} + \dots - 10y + 1)(y^{71} - y^{70} + \dots + 908846y - 12769)$	