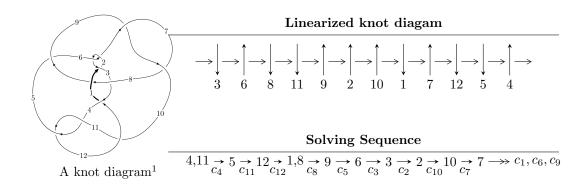
$12a_{0333} \ (K12a_{0333})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 1.20734 \times 10^{126} u^{119} + 2.46333 \times 10^{126} u^{118} + \dots + 3.54053 \times 10^{125} b + 4.43052 \times 10^{125}, \\ 3.79147 \times 10^{125} u^{119} + 1.43350 \times 10^{125} u^{118} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.94486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.9486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.9486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.9486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 4.9486 \times 10^{125}, \ u^{120} + 3u^{119} + \dots + 3.54053 \times 10^{125} a - 1.0486 \times 10^{125} a$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 120 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.
$$I_1^u = \langle 1.21 \times 10^{126} u^{119} + 2.46 \times 10^{126} u^{118} + \dots + 3.54 \times 10^{125} b + 4.43 \times 10^{125}$$
, $3.79 \times 10^{125} u^{119} + 1.43 \times 10^{125} u^{118} + \dots + 3.54 \times 10^{125} a - 4.94 \times 10^{125}$, $u^{120} + 3u^{119} + \dots + 2u + 1 \rangle$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

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

$$a_{1} = \begin{pmatrix} -1.07088u^{119} - 0.404884u^{118} + \dots - 1.06912u + 1.39664 \\ -3.41004u^{119} - 6.95753u^{118} + \dots - 4.08476u - 1.25137 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -1.10879u^{119} - 0.667261u^{118} + \dots - 1.24150u + 1.18917 \\ -3.20538u^{119} - 6.69967u^{118} + \dots - 4.21800u - 1.27669 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -6.11682u^{119} - 9.64072u^{118} + \dots - 0.615382u - 3.46092 \\ -4.22643u^{119} - 6.06316u^{118} + \dots + 5.77722u - 1.25101 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 9.55745u^{119} + 15.8859u^{118} + \dots + 8.75147u + 4.29676 \\ 4.22090u^{119} + 7.00859u^{118} + \dots + 16.1434u + 8.70903 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 11.4755u^{119} + 27.6957u^{118} + \dots + 10.6546u + 7.38802 \\ 2.78667u^{119} + 10.9141u^{118} + \dots + 11.1166u + 3.67666 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{3} \\ u^{5} - u^{3} + u \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.49406u^{119} - 1.43715u^{118} + \dots - 1.45193u + 0.634651 \\ -4.21529u^{119} - 8.96618u^{118} + \dots - 7.00577u - 1.78600 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.73851u^{119} 7.21969u^{118} + \cdots 14.7819u 2.34006$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{120} + 45u^{119} + \dots - 34u^2 + 1$
c_2, c_6	$u^{120} - u^{119} + \dots - 6u^3 + 1$
c_3	$u^{120} - 49u^{119} + \dots - 10414u + 557$
c_4,c_{11}	$u^{120} + 3u^{119} + \dots + 2u + 1$
<i>C</i> ₅	$u^{120} + 45u^{119} + \dots + 7856120u + 971617$
c_{7}, c_{9}	$u^{120} + u^{119} + \dots + 28u + 1$
c ₈	$u^{120} + 5u^{119} + \dots + 12u + 1$
c_{10}	$u^{120} + 59u^{119} + \dots + 6u^2 + 1$
c_{12}	$u^{120} + 9u^{119} + \dots - 404318u + 65969$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{120} + 61y^{119} + \dots - 68y + 1$
c_2, c_6	$y^{120} + 45y^{119} + \dots - 34y^2 + 1$
c_3	$y^{120} - 603y^{119} + \dots - 24727612y + 310249$
c_4, c_{11}	$y^{120} - 59y^{119} + \dots + 6y^2 + 1$
<i>C</i> 5	$y^{120} - 639y^{119} + \dots - 56197112480332y + 944039594689$
c_7, c_9	$y^{120} - 79y^{119} + \dots + 108y + 1$
<i>C</i> ₈	$y^{120} - 3y^{119} + \dots - 60y + 1$
c_{10}	$y^{120} + 5y^{119} + \dots + 12y + 1$
c_{12}	$y^{120} + 49y^{119} + \dots - 260893161688y + 4351908961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.979856 + 0.344337I		
a = 1.09366 + 0.96908I	0.62225 - 3.02138I	0
b = -0.363071 + 0.138763I		
u = -0.979856 - 0.344337I		
a = 1.09366 - 0.96908I	0.62225 + 3.02138I	0
b = -0.363071 - 0.138763I		
u = 0.324737 + 0.902702I		
a = 0.276812 + 0.016151I	4.18323 + 3.09968I	0
b = 0.489944 - 0.577252I		
u = 0.324737 - 0.902702I		
a = 0.276812 - 0.016151I	4.18323 - 3.09968I	0
b = 0.489944 + 0.577252I		
u = -0.171558 + 0.943685I		
a = -0.193763 - 0.269957I	1.92595 + 3.80713I	0
b = 0.112001 - 0.316899I		
u = -0.171558 - 0.943685I		
a = -0.193763 + 0.269957I	1.92595 - 3.80713I	0
b = 0.112001 + 0.316899I		
u = -0.761541 + 0.710272I		
a = -0.529374 - 0.492267I	6.12981 + 11.58910I	0
b = -0.672411 + 1.215670I		
u = -0.761541 - 0.710272I		
a = -0.529374 + 0.492267I	6.12981 - 11.58910I	0
b = -0.672411 - 1.215670I		
u = 0.767501 + 0.722782I		
a = 0.575940 - 0.354501I	7.84829 - 5.50381I	0
b = 0.498118 + 1.157700I		
u = 0.767501 - 0.722782I		
a = 0.575940 + 0.354501I	7.84829 + 5.50381I	0
b = 0.498118 - 1.157700I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.976991 + 0.397527I		
a = -1.28088 + 0.80343I	1.34359 - 1.89187I	0
b = 0.254492 - 0.367447I		
u = 0.976991 - 0.397527I		
a = -1.28088 - 0.80343I	1.34359 + 1.89187I	0
b = 0.254492 + 0.367447I		
u = -0.677820 + 0.808170I		
a = -0.197815 - 0.094008I	0.18750 + 3.33247I	0
b = -0.528005 + 0.471225I		
u = -0.677820 - 0.808170I		
a = -0.197815 + 0.094008I	0.18750 - 3.33247I	0
b = -0.528005 - 0.471225I		
u = -1.05515		
a = -1.05269	-1.68544	0
b = -0.630172		
u = -0.834199 + 0.699354I		
a = -0.954568 + 0.410532I	5.92230 - 6.26866I	0
b = 0.467867 + 1.072280I		
u = -0.834199 - 0.699354I		
a = -0.954568 - 0.410532I	5.92230 + 6.26866I	0
b = 0.467867 - 1.072280I		
u = -0.813951 + 0.398465I		
a = -0.429377 + 1.103900I	-1.81976 + 1.21553I	0
b = 0.160266 + 0.083993I		
u = -0.813951 - 0.398465I		
a = -0.429377 - 1.103900I	-1.81976 - 1.21553I	0
b = 0.160266 - 0.083993I		
u = 0.831410 + 0.719173I		
a = 0.820300 + 0.252864I	7.66835 + 0.09297I	0
b = -0.264529 + 1.037440I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.831410 - 0.719173I	,	
a = 0.820300 - 0.252864I	7.66835 - 0.09297I	0
b = -0.264529 - 1.037440I		
u = 0.290332 + 0.844265I		
a = 0.412571 + 0.243861I	5.15191 + 8.18955I	0
b = 0.96998 - 1.22147I		
u = 0.290332 - 0.844265I		
a = 0.412571 - 0.243861I	5.15191 - 8.18955I	0
b = 0.96998 + 1.22147I		
u = -0.316699 + 0.831772I		
a = -0.260078 + 0.219002I	-1.89051 - 6.35992I	0
b = -1.115100 - 0.753088I		
u = -0.316699 - 0.831772I		
a = -0.260078 - 0.219002I	-1.89051 + 6.35992I	0
b = -1.115100 + 0.753088I		
u = 1.089150 + 0.234904I		
a = 1.80307 + 0.24588I	-4.15140 - 4.50015I	0
b = 1.018600 + 0.404078I		
u = 1.089150 - 0.234904I		
a = 1.80307 - 0.24588I	-4.15140 + 4.50015I	0
b = 1.018600 - 0.404078I		
u = -0.286154 + 0.838179I		
a = -0.415933 + 0.302299I	3.4719 - 14.1532I	0
b = -1.12271 - 1.31896I		
u = -0.286154 - 0.838179I		
a = -0.415933 - 0.302299I	3.4719 + 14.1532I	0
b = -1.12271 + 1.31896I		
u = -0.698078 + 0.518282I		
a = -0.00357 + 1.74069I	1.02759 + 6.71407I	0 9.53783I
b = 0.684357 - 0.598030I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.698078 - 0.518282I		
a = -0.00357 - 1.74069I	1.02759 - 6.71407I	0. + 9.53783I
b = 0.684357 + 0.598030I		
u = 1.044660 + 0.435012I		
a = -2.23762 + 0.53331I	-0.02482 - 2.22257I	0
b = -0.719465 - 1.126900I		
u = 1.044660 - 0.435012I		
a = -2.23762 - 0.53331I	-0.02482 + 2.22257I	0
b = -0.719465 + 1.126900I		
u = 1.020500 + 0.498431I		
a = -0.652839 + 0.488485I	3.23486 - 0.38929I	0
b = 0.092070 - 1.215700I		
u = 1.020500 - 0.498431I		
a = -0.652839 - 0.488485I	3.23486 + 0.38929I	0
b = 0.092070 + 1.215700I		
u = -1.076580 + 0.378949I		
a = 1.15257 + 1.55328I	-2.77897 + 1.18278I	0
b = 0.769790 + 0.474045I		
u = -1.076580 - 0.378949I		
a = 1.15257 - 1.55328I	-2.77897 - 1.18278I	0
b = 0.769790 - 0.474045I		
u = -1.032920 + 0.505731I		
a = 0.245975 + 0.413112I	3.37682 + 5.48598I	0
b = -0.073973 - 1.102930I		
u = -1.032920 - 0.505731I		
a = 0.245975 - 0.413112I	3.37682 - 5.48598I	0
b = -0.073973 + 1.102930I		
u = -1.091040 + 0.431738I		
a = 4.85889 + 5.71513I	-1.02292 + 5.65821I	0
b = 4.89829 + 0.38098I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.091040 - 0.431738I		
a = 4.85889 - 5.71513I	-1.02292 - 5.65821I	0
b = 4.89829 - 0.38098I		
u = 0.660166 + 0.493992I		
a = -0.29803 + 1.59123I	2.13373 - 1.83530I	5.17783 + 4.58003I
b = -0.445578 - 0.769412I		
u = 0.660166 - 0.493992I		
a = -0.29803 - 1.59123I	2.13373 + 1.83530I	5.17783 - 4.58003I
b = -0.445578 + 0.769412I		
u = -1.131570 + 0.329651I		
a = 1.19322 + 0.96903I	-3.37533 + 0.37024I	0
b = 0.869209 + 0.761560I		
u = -1.131570 - 0.329651I		
a = 1.19322 - 0.96903I	-3.37533 - 0.37024I	0
b = 0.869209 - 0.761560I		
u = -1.075110 + 0.492379I		
a = -1.13838 - 1.46213I	0.47500 + 4.53395I	0
b = -1.27344 - 0.72132I		
u = -1.075110 - 0.492379I		
a = -1.13838 + 1.46213I	0.47500 - 4.53395I	0
b = -1.27344 + 0.72132I		
u = 1.141380 + 0.312790I		
a = -1.40861 + 0.91446I	-4.89679 + 4.65011I	0
b = -1.054980 + 0.838300I		
u = 1.141380 - 0.312790I		
a = -1.40861 - 0.91446I	-4.89679 - 4.65011I	0
b = -1.054980 - 0.838300I		
u = 1.096310 + 0.460123I		
a = 11.4019 - 26.8572I	-0.82002 - 1.64527I	0
b = 19.2908 - 7.8522I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.096310 - 0.460123I		
a = 11.4019 + 26.8572I	-0.82002 + 1.64527I	0
b = 19.2908 + 7.8522I		
u = -1.18948		
a = -0.950978	-1.66019	0
b = -0.616281		
u = -0.702662 + 0.388268I		
a = 0.601372 + 0.300948I	0.79969 - 2.86212I	1.25285 + 0.98098I
b = -1.097330 - 0.318766I		
u = -0.702662 - 0.388268I		
a = 0.601372 - 0.300948I	0.79969 + 2.86212I	1.25285 - 0.98098I
b = -1.097330 + 0.318766I		
u = -1.115540 + 0.439696I		
a = -0.398178 + 1.288090I	-2.49083 + 1.59231I	0
b = 0.419244 + 0.947562I		
u = -1.115540 - 0.439696I		
a = -0.398178 - 1.288090I	-2.49083 - 1.59231I	0
b = 0.419244 - 0.947562I		
u = -1.079350 + 0.524191I		
a = -1.81683 + 0.14134I	2.54525 + 4.64503I	0
b = -0.255130 + 0.176076I		
u = -1.079350 - 0.524191I		
a = -1.81683 - 0.14134I	2.54525 - 4.64503I	0
b = -0.255130 - 0.176076I		
u = 1.087490 + 0.528401I		
a = 2.14413 + 0.14776I	2.02256 - 9.76114I	0
b = 0.246410 + 0.487523I		
u = 1.087490 - 0.528401I		
a = 2.14413 - 0.14776I	2.02256 + 9.76114I	0
b = 0.246410 - 0.487523I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.189370 + 0.223697I		
a = 1.58163 - 0.92063I	-6.80677 + 3.25920I	0
b = 1.206410 - 0.458400I		
u = 1.189370 - 0.223697I		
a = 1.58163 + 0.92063I	-6.80677 - 3.25920I	0
b = 1.206410 + 0.458400I		
u = 1.108750 + 0.499251I		
a = 2.74289 - 0.03774I	-1.91179 - 6.14484I	0
b = 1.07835 + 1.19608I		
u = 1.108750 - 0.499251I		
a = 2.74289 + 0.03774I	-1.91179 + 6.14484I	0
b = 1.07835 - 1.19608I		
u = 1.171060 + 0.335117I		
a = -1.159990 + 0.458730I	-8.24695 - 1.94958I	0
b = -1.006160 + 0.414342I		
u = 1.171060 - 0.335117I		
a = -1.159990 - 0.458730I	-8.24695 + 1.94958I	0
b = -1.006160 - 0.414342I		
u = 1.124950 + 0.491772I		
a = 1.90026 + 0.59809I	-2.00613 - 6.04917I	0
b = 0.396104 + 1.286160I		
u = 1.124950 - 0.491772I		
a = 1.90026 - 0.59809I	-2.00613 + 6.04917I	0
b = 0.396104 - 1.286160I		
u = -0.197792 + 0.745397I		
a = 0.138326 - 0.760120I	-4.20426 - 1.55011I	-5.15713 + 0.81242I
b = 0.722850 + 0.496843I		
u = -0.197792 - 0.745397I		
a = 0.138326 + 0.760120I	-4.20426 + 1.55011I	-5.15713 - 0.81242I
b = 0.722850 - 0.496843I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.251363 + 0.728534I		
a = 0.451399 - 1.047470I	-0.82094 - 7.82039I	0.42967 + 7.46898I
b = 0.876667 + 0.901266I		
u = -0.251363 - 0.728534I		
a = 0.451399 + 1.047470I	-0.82094 + 7.82039I	0.42967 - 7.46898I
b = 0.876667 - 0.901266I		
u = 1.215830 + 0.248185I		
a = 1.31511 - 1.65542I	-1.37922 + 10.80190I	0
b = 1.17340 - 1.08861I		
u = 1.215830 - 0.248185I		
a = 1.31511 + 1.65542I	-1.37922 - 10.80190I	0
b = 1.17340 + 1.08861I		
u = -1.221170 + 0.241017I		
a = -1.14573 - 1.47695I	0.23902 - 4.83774I	0
b = -0.998601 - 0.982734I		
u = -1.221170 - 0.241017I		
a = -1.14573 + 1.47695I	0.23902 + 4.83774I	0
b = -0.998601 + 0.982734I		
u = 0.512274 + 0.551955I		
a = -1.57519 + 1.38221I	4.72396 - 3.86670I	8.43902 + 6.01110I
b = -0.070032 - 1.058420I		
u = 0.512274 - 0.551955I		
a = -1.57519 - 1.38221I	4.72396 + 3.86670I	8.43902 - 6.01110I
b = -0.070032 + 1.058420I		
u = 1.134080 + 0.527150I		
a = 2.11224 - 0.65937I	-2.01212 - 7.48043I	0
b = 0.780407 + 1.013240I		
u = 1.134080 - 0.527150I		
a = 2.11224 + 0.65937I	-2.01212 + 7.48043I	0
b = 0.780407 - 1.013240I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.246230 + 0.704413I		
a = -0.567715 - 0.854711I	0.53863 + 2.78783I	2.73261 - 2.99922I
b = -0.698995 + 0.907309I		
u = 0.246230 - 0.704413I		
a = -0.567715 + 0.854711I	0.53863 - 2.78783I	2.73261 + 2.99922I
b = -0.698995 - 0.907309I		
u = -1.138730 + 0.533845I		
a = -2.12484 - 0.95345I	-3.38807 + 12.59600I	0
b = -0.909882 + 1.018810I		
u = -1.138730 - 0.533845I		
a = -2.12484 + 0.95345I	-3.38807 - 12.59600I	0
b = -0.909882 - 1.018810I		
u = -0.482895 + 0.559197I		
a = 1.71895 + 1.14574I	4.98517 - 1.18092I	9.24677 + 0.95822I
b = 0.026055 - 0.870208I		
u = -0.482895 - 0.559197I		
a = 1.71895 - 1.14574I	4.98517 + 1.18092I	9.24677 - 0.95822I
b = 0.026055 + 0.870208I		
u = -1.153890 + 0.521665I		
a = -1.42018 - 0.79912I	-6.96693 + 6.28883I	0
b = -0.766400 + 0.701073I		
u = -1.153890 - 0.521665I		
a = -1.42018 + 0.79912I	-6.96693 - 6.28883I	0
b = -0.766400 - 0.701073I		
u = 0.354503 + 0.633986I		
a = -1.71274 - 0.26068I	4.13174 + 5.19741I	6.94261 - 6.82308I
b = -0.106565 + 0.669466I		
u = 0.354503 - 0.633986I		
a = -1.71274 + 0.26068I	4.13174 - 5.19741I	6.94261 + 6.82308I
b = -0.106565 - 0.669466I		
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Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.372449 + 0.615008I		
a = 1.78118 + 0.00872I	4.58226 - 0.13777I	8.52333 + 0.22552I
b = 0.087025 + 0.391314I		
u = -0.372449 - 0.615008I		
a = 1.78118 - 0.00872I	4.58226 + 0.13777I	8.52333 - 0.22552I
b = 0.087025 - 0.391314I		
u = -1.155470 + 0.581160I		
a = 1.96263 + 0.83303I	-4.39767 + 11.60140I	0
b = 1.25986 - 0.82885I		
u = -1.155470 - 0.581160I		
a = 1.96263 - 0.83303I	-4.39767 - 11.60140I	0
b = 1.25986 + 0.82885I		
u = 0.580824 + 0.398636I		
a = -0.684279 + 0.948142I	1.47406 - 1.29391I	5.74032 + 3.73465I
b = 0.114790 - 1.099190I		
u = 0.580824 - 0.398636I		
a = -0.684279 - 0.948142I	1.47406 + 1.29391I	5.74032 - 3.73465I
b = 0.114790 + 1.099190I		
u = 0.657098 + 0.253914I		
a = -0.678281 + 0.458482I	1.54917 - 1.60121I	4.61531 + 10.34510I
b = 1.47795 - 0.86919I		
u = 0.657098 - 0.253914I		
a = -0.678281 - 0.458482I	1.54917 + 1.60121I	4.61531 - 10.34510I
b = 1.47795 + 0.86919I		
u = 1.249640 + 0.348443I		
a = -0.569455 - 0.369945I	-2.64160 - 8.04873I	0
b = -0.528300 - 0.241301I		
u = 1.249640 - 0.348443I		
a = -0.569455 + 0.369945I	-2.64160 + 8.04873I	0
b = -0.528300 + 0.241301I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.165610 + 0.574178I		
a = 2.57578 + 0.44640I	0.8486 + 19.3744I	0
b = 1.23887 - 1.38107I		
u = -1.165610 - 0.574178I		
a = 2.57578 - 0.44640I	0.8486 - 19.3744I	0
b = 1.23887 + 1.38107I		
u = 1.166220 + 0.577344I		
a = -2.35979 + 0.34738I	2.53534 - 13.43940I	0
b = -1.09116 - 1.27325I		
u = 1.166220 - 0.577344I		
a = -2.35979 - 0.34738I	2.53534 + 13.43940I	0
b = -1.09116 + 1.27325I		
u = -1.127840 + 0.672415I		
a = 0.479675 + 0.571724I	-1.20667 + 2.55074I	0
b = 0.562659 - 0.013712I		
u = -1.127840 - 0.672415I		
a = 0.479675 - 0.571724I	-1.20667 - 2.55074I	0
b = 0.562659 + 0.013712I		
u = 1.167230 + 0.601982I		
a = -1.355330 + 0.313289I	1.63424 - 8.58607I	0
b = -0.706384 - 0.633643I		
u = 1.167230 - 0.601982I		
a = -1.355330 - 0.313289I	1.63424 + 8.58607I	0
b = -0.706384 + 0.633643I		
u = 0.238439 + 0.601148I		
a = -0.727069 - 0.121720I	0.51776 + 1.80280I	1.24484 - 3.47897I
b = -0.562859 + 1.111690I		
u = 0.238439 - 0.601148I		
a = -0.727069 + 0.121720I	0.51776 - 1.80280I	1.24484 + 3.47897I
b = -0.562859 - 1.111690I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.315898 + 0.557333I		
a = 0.160259 + 0.076062I	-0.23503 + 2.29897I	-0.63836 - 2.70248I
b = -0.770851 + 0.634078I		
u = -0.315898 - 0.557333I		
a = 0.160259 - 0.076062I	-0.23503 - 2.29897I	-0.63836 + 2.70248I
b = -0.770851 - 0.634078I		
u = -1.291920 + 0.450579I		
a = 0.164348 - 0.255157I	-1.76459 + 1.56088I	0
b = 0.1118940 - 0.0654741I		
u = -1.291920 - 0.450579I		
a = 0.164348 + 0.255157I	-1.76459 - 1.56088I	0
b = 0.1118940 + 0.0654741I		
u = 0.201608 + 0.592090I		
a = -0.412818 - 0.058276I	0.56650 + 1.75323I	2.28628 - 3.72791I
b = -0.071919 + 1.206460I		
u = 0.201608 - 0.592090I		
a = -0.412818 + 0.058276I	0.56650 - 1.75323I	2.28628 + 3.72791I
b = -0.071919 - 1.206460I		
u = -0.364944 + 0.500940I		
a = 1.244650 + 0.541319I	2.51480 - 0.38256I	2.40649 - 1.68541I
b = 1.070820 - 0.337080I		
u = -0.364944 - 0.500940I		
a = 1.244650 - 0.541319I	2.51480 + 0.38256I	2.40649 + 1.68541I
b = 1.070820 + 0.337080I		
u = 0.058164 + 0.493664I		
a = -0.198658 + 0.573348I	1.76036 - 2.16253I	-22.5713 - 32.8688I
b = -1.02847 + 5.15124I		
u = 0.058164 - 0.493664I		
a = -0.198658 - 0.573348I	1.76036 + 2.16253I	-22.5713 + 32.8688I
b = -1.02847 - 5.15124I		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u^{120} + 45u^{119} + \dots - 34u^2 + 1$
c_2, c_6	$u^{120} - u^{119} + \dots - 6u^3 + 1$
c_3	$u^{120} - 49u^{119} + \dots - 10414u + 557$
c_4, c_{11}	$u^{120} + 3u^{119} + \dots + 2u + 1$
<i>C</i> 5	$u^{120} + 45u^{119} + \dots + 7856120u + 971617$
c_7, c_9	$u^{120} + u^{119} + \dots + 28u + 1$
c ₈	$u^{120} + 5u^{119} + \dots + 12u + 1$
c_{10}	$u^{120} + 59u^{119} + \dots + 6u^2 + 1$
c_{12}	$u^{120} + 9u^{119} + \dots - 404318u + 65969$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{120} + 61y^{119} + \dots - 68y + 1$
c_2, c_6	$y^{120} + 45y^{119} + \dots - 34y^2 + 1$
c_3	$y^{120} - 603y^{119} + \dots - 24727612y + 310249$
c_4, c_{11}	$y^{120} - 59y^{119} + \dots + 6y^2 + 1$
<i>C</i> 5	$y^{120} - 639y^{119} + \dots - 56197112480332y + 944039594689$
c_7, c_9	$y^{120} - 79y^{119} + \dots + 108y + 1$
c ₈	$y^{120} - 3y^{119} + \dots - 60y + 1$
c_{10}	$y^{120} + 5y^{119} + \dots + 12y + 1$
c_{12}	$y^{120} + 49y^{119} + \dots - 260893161688y + 4351908961$