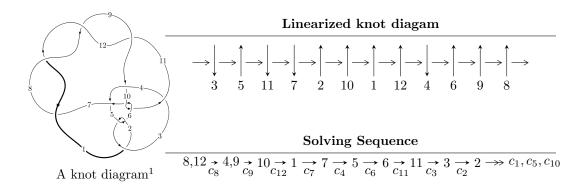
$12a_{0201} (K12a_{0201})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -3.58867 \times 10^{91} u^{83} + 1.02171 \times 10^{92} u^{82} + \dots + 1.57098 \times 10^{92} b - 1.00231 \times 10^{92}, \\ -1.83263 \times 10^{92} u^{83} + 5.48113 \times 10^{92} u^{82} + \dots + 1.57098 \times 10^{92} a + 7.20038 \times 10^{92}, \ u^{84} - 3u^{83} + \dots - 3u - 10^{92} u^{84} + 1.0000 + 1.0$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 90 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.

 $I. \\ I_1^u = \langle -3.59 \times 10^{91} u^{83} + 1.02 \times 10^{92} u^{82} + \dots + 1.57 \times 10^{92} b - 1.00 \times 10^{92}, \ -1.83 \times 10^{92} u^{83} + 5.48 \times 10^{92} u^{82} + \dots + 1.57 \times 10^{92} a + 7.20 \times 10^{92}, \ u^{84} - 3u^{83} + \dots - 3u + 1 \rangle$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.16655u^{83} - 3.48898u^{82} + \dots + 6.40630u - 4.58336 \\ 0.228435u^{83} - 0.650361u^{82} + \dots + 0.796213u + 0.638014 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.00496120u^{83} + 0.0416024u^{82} + \dots - 0.527099u - 0.844089 \\ 0.0803009u^{83} - 0.303932u^{82} + \dots + 0.736204u + 0.163754 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.869710u^{83} - 2.51392u^{82} + \dots + 3.61734u - 4.81101 \\ 0.108064u^{83} + 0.181385u^{82} + \dots - 0.185590u + 1.02410 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.163754u^{83} + 0.571563u^{82} + \dots - 3.05646u + 1.22747 \\ -0.0564860u^{83} + 0.102861u^{82} + \dots + 0.829205u + 0.00496120 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u \\ u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.835016u^{83} - 2.40727u^{82} + \dots + 5.41664u - 4.56959 \\ 0.175384u^{83} - 0.0477895u^{82} + \dots + 1.19301u + 0.711354 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.667963u^{83} + 1.84046u^{82} + \dots - 5.88896u - 1.51691 \\ -0.0928646u^{83} + 0.425791u^{82} + \dots + 3.33040u - 0.355437 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $2.16495u^{83} 5.74232u^{82} + \cdots + 10.7785u 2.44552$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{84} + 40u^{83} + \dots + 3294u + 625$
c_2, c_5	$u^{84} + 4u^{83} + \dots + 166u + 25$
c_3	$25(25u^{84} + 105u^{83} + \dots - 18688u + 2563)$
c_4	$25(25u^{84} + 10u^{83} + \dots + 227461u + 20617)$
c_6, c_{10}	$u^{84} - 3u^{83} + \dots - 3u + 1$
c_7, c_8, c_{11} c_{12}	$u^{84} + 3u^{83} + \dots + 3u + 1$
c_9	$u^{84} - u^{83} + \dots + 8800u + 8000$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{84} + 12y^{83} + \dots - 3086686y + 390625$
c_2, c_5	$y^{84} + 40y^{83} + \dots + 3294y + 625$
c_3	$625(625y^{84} - 31725y^{83} + \dots - 1.22498 \times 10^8y + 6568969)$
c_4	$625(625y^{84} - 13650y^{83} + \dots - 5.34301 \times 10^{10}y + 4.25061 \times 10^{8})$
c_6, c_{10}	$y^{84} + 47y^{83} + \dots + 19y + 1$
c_7, c_8, c_{11} c_{12}	$y^{84} + 99y^{83} + \dots + 19y + 1$
<i>c</i> ₉	$y^{84} - 35y^{83} + \dots - 789120000y + 64000000$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.559377 + 0.850834I		
a = -1.34504 - 0.79140I	-5.4555 + 13.7745I	0
b = -0.0424165 + 0.1039430I		
u = 0.559377 - 0.850834I		
a = -1.34504 + 0.79140I	-5.4555 - 13.7745I	0
b = -0.0424165 - 0.1039430I		
u = -0.603908 + 0.839047I		
a = 0.818244 - 0.598416I	-1.66257 - 7.72348I	0
b = -0.0640806 + 0.0705229I		
u = -0.603908 - 0.839047I		
a = 0.818244 + 0.598416I	-1.66257 + 7.72348I	0
b = -0.0640806 - 0.0705229I		
u = 0.354001 + 0.884267I		
a = -1.44947 - 0.48407I	-8.77859 + 4.94528I	0
b = 0.151051 - 0.266514I		
u = 0.354001 - 0.884267I		
a = -1.44947 + 0.48407I	-8.77859 - 4.94528I	0
b = 0.151051 + 0.266514I		
u = 0.501059 + 0.802771I		
a = 1.45664 + 0.76972I	-3.02003 + 8.18197I	0
b = -0.0915011 - 0.0759455I		
u = 0.501059 - 0.802771I		
a = 1.45664 - 0.76972I	-3.02003 - 8.18197I	0
b = -0.0915011 + 0.0759455I		
u = 0.575841 + 0.733284I		
a = -0.084003 - 1.043710I	-7.12558 + 2.31715I	0
b = 0.182438 - 0.080722I		
u = 0.575841 - 0.733284I		
a = -0.084003 + 1.043710I	-7.12558 - 2.31715I	0
b = 0.182438 + 0.080722I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.352613 + 0.849364I		
a = 0.561264 + 1.147210I	-3.83598 - 0.83646I	0
b = 0.162827 + 0.112680I		
u = 0.352613 - 0.849364I		
a = 0.561264 - 1.147210I	-3.83598 + 0.83646I	0
b = 0.162827 - 0.112680I		
u = -0.059146 + 1.084560I		
a = 0.794617 + 0.270479I	-3.51431 - 1.41708I	0
b = 0.322778 - 0.026997I		
u = -0.059146 - 1.084560I		
a = 0.794617 - 0.270479I	-3.51431 + 1.41708I	0
b = 0.322778 + 0.026997I		
u = -0.505379 + 0.743093I		
a = -0.966789 + 0.597818I	0.26259 - 2.97021I	0
b = 0.0998708 + 0.0522679I		
u = -0.505379 - 0.743093I		
a = -0.966789 - 0.597818I	0.26259 + 2.97021I	0
b = 0.0998708 - 0.0522679I		
u = 0.498502 + 0.985151I		
a = -0.394841 - 0.857254I	-6.24548 - 5.02549I	0
b = -0.080456 + 0.122688I		
u = 0.498502 - 0.985151I		
a = -0.394841 + 0.857254I	-6.24548 + 5.02549I	0
b = -0.080456 - 0.122688I		
u = -0.823438 + 0.141577I		
a = 0.235246 + 0.004564I	0.48308 + 2.97342I	0
b = 0.607378 - 0.197816I		
u = -0.823438 - 0.141577I		
a = 0.235246 - 0.004564I	0.48308 - 2.97342I	0
b = 0.607378 + 0.197816I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.350172 + 1.132160I		
a = 0.625704 - 0.237671I	-3.54157 - 1.27620I	0
b = 0.198471 + 0.000769I		
u = -0.350172 - 1.132160I		
a = 0.625704 + 0.237671I	-3.54157 + 1.27620I	0
b = 0.198471 - 0.000769I		
u = 0.774229 + 0.059652I		
a = -0.319713 - 0.244575I	-3.06074 - 9.34032I	1.08705 + 7.00360I
b = -0.930111 - 0.495675I		
u = 0.774229 - 0.059652I		
a = -0.319713 + 0.244575I	-3.06074 + 9.34032I	1.08705 - 7.00360I
b = -0.930111 + 0.495675I		
u = -0.057154 + 0.759277I		
a = 2.92385 - 0.76517I	-2.74047 - 1.50981I	-1.82977 + 7.34075I
b = 1.44744 - 0.65670I		
u = -0.057154 - 0.759277I		
a = 2.92385 + 0.76517I	-2.74047 + 1.50981I	-1.82977 - 7.34075I
b = 1.44744 + 0.65670I		
u = -0.283084 + 0.680233I		
a = 0.176113 + 0.832722I	-3.10028 - 5.80914I	-1.88912 + 10.77046I
b = 0.305432 - 1.203210I		
u = -0.283084 - 0.680233I		
a = 0.176113 - 0.832722I	-3.10028 + 5.80914I	-1.88912 - 10.77046I
b = 0.305432 + 1.203210I		
u = -0.663601 + 0.245565I		
a = -0.299112 + 0.012132I	1.80973 - 0.97588I	6.29958 - 0.92330I
b = -0.426042 + 0.391408I		
u = -0.663601 - 0.245565I		
a = -0.299112 - 0.012132I	1.80973 + 0.97588I	6.29958 + 0.92330I
b = -0.426042 - 0.391408I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.666820 + 0.079514I		
a = 0.382678 + 0.101341I	-0.84887 - 4.24920I	4.48446 + 3.03882I
b = 0.868529 + 0.564372I		
u = 0.666820 - 0.079514I		
a = 0.382678 - 0.101341I	-0.84887 + 4.24920I	4.48446 - 3.03882I
b = 0.868529 - 0.564372I		
u = 0.627872 + 0.171062I		
a = -0.669086 + 0.483574I	-5.54769 + 1.76630I	-2.07508 - 2.33583I
b = -0.703760 + 0.442978I		
u = 0.627872 - 0.171062I		
a = -0.669086 - 0.483574I	-5.54769 - 1.76630I	-2.07508 + 2.33583I
b = -0.703760 - 0.442978I		
u = 0.196060 + 0.617529I		
a = 1.239230 - 0.333181I	-0.71568 + 3.16029I	2.36917 - 2.88022I
b = -0.247349 - 1.018570I		
u = 0.196060 - 0.617529I		
a = 1.239230 + 0.333181I	-0.71568 - 3.16029I	2.36917 + 2.88022I
b = -0.247349 + 1.018570I		
u = -0.181114 + 0.588314I		
a = -2.47298 + 3.00036I	-3.13471 + 1.93596I	4.26373 + 2.32250I
b = -1.47689 + 0.99560I		
u = -0.181114 - 0.588314I		
a = -2.47298 - 3.00036I	-3.13471 - 1.93596I	4.26373 - 2.32250I
b = -1.47689 - 0.99560I		
u = -0.285706 + 1.360680I		
a = -0.240060 + 0.370676I	-3.25781 - 4.38865I	0
b = -0.219517 + 0.162799I		
u = -0.285706 - 1.360680I		
a = -0.240060 - 0.370676I	-3.25781 + 4.38865I	0
b = -0.219517 - 0.162799I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.273958 + 0.517742I		
a = 2.14473 + 0.91311I	-0.27546 + 3.96105I	3.31158 - 10.67062I
b = -0.732241 - 0.347542I		
u = 0.273958 - 0.517742I		
a = 2.14473 - 0.91311I	-0.27546 - 3.96105I	3.31158 + 10.67062I
b = -0.732241 + 0.347542I		
u = -0.278794 + 0.406348I		
a = -1.60602 + 0.57998I	0.456460 - 1.219620I	6.20987 + 4.56453I
b = 0.281917 + 0.460637I		
u = -0.278794 - 0.406348I		
a = -1.60602 - 0.57998I	0.456460 + 1.219620I	6.20987 - 4.56453I
b = 0.281917 - 0.460637I		
u = -0.293880 + 0.377603I		
a = -1.078430 - 0.084585I	0.538633 - 1.103160I	7.21508 + 6.37604I
b = 0.042583 + 0.717975I		
u = -0.293880 - 0.377603I		
a = -1.078430 + 0.084585I	0.538633 + 1.103160I	7.21508 - 6.37604I
b = 0.042583 - 0.717975I		
u = -0.00893 + 1.56295I		
a = 0.97735 + 1.24513I	-6.12688 - 1.59937I	0
b = 1.66511 + 1.48668I		
u = -0.00893 - 1.56295I		
a = 0.97735 - 1.24513I	-6.12688 + 1.59937I	0
b = 1.66511 - 1.48668I		
u = -0.01945 + 1.57262I		
a = 1.93490 + 0.40789I	-6.44558 - 1.79187I	0
b = 3.50479 + 0.31797I		
u = -0.01945 - 1.57262I		
a = 1.93490 - 0.40789I	-6.44558 + 1.79187I	0
b = 3.50479 - 0.31797I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.04000 + 1.57921I		
a = -2.69888 - 0.37859I	-7.51330 + 4.86891I	0
b = -4.75339 - 0.35957I		
u = 0.04000 - 1.57921I		
a = -2.69888 + 0.37859I	-7.51330 - 4.86891I	0
b = -4.75339 + 0.35957I		
u = -0.01120 + 1.58483I		
a = -0.33329 - 1.70734I	-10.56600 + 1.42603I	0
b = -0.40623 - 4.78895I		
u = -0.01120 - 1.58483I		
a = -0.33329 + 1.70734I	-10.56600 - 1.42603I	0
b = -0.40623 + 4.78895I		
u = 0.288131 + 0.291830I		
a = -0.748039 - 1.103380I	0.29629 - 1.71529I	6.13579 + 1.42425I
b = 0.695579 + 0.725202I		
u = 0.288131 - 0.291830I		
a = -0.748039 + 1.103380I	0.29629 + 1.71529I	6.13579 - 1.42425I
b = 0.695579 - 0.725202I		
u = 0.04376 + 1.60820I		
a = -1.102070 - 0.442715I	-8.48978 + 3.97458I	0
b = -2.15482 + 0.08868I		
u = 0.04376 - 1.60820I		
a = -1.102070 + 0.442715I	-8.48978 - 3.97458I	0
b = -2.15482 - 0.08868I		
u = -0.06572 + 1.61236I		
a = 0.25388 - 1.78486I	-11.01890 - 7.03717I	0
b = 0.55057 - 2.45686I		
u = -0.06572 - 1.61236I		
a = 0.25388 + 1.78486I	-11.01890 + 7.03717I	0
b = 0.55057 + 2.45686I		
b = -2.15482 - 0.08868I $u = -0.06572 + 1.61236I$ $a = 0.25388 - 1.78486I$ $b = 0.55057 - 2.45686I$ $u = -0.06572 - 1.61236I$ $a = 0.25388 + 1.78486I$	-11.01890 - 7.03717I	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.02406 + 1.63596I		
a = -1.27658 + 1.06452I	-11.09410 - 1.87001I	0
b = -3.37497 + 3.38315I		
u = -0.02406 - 1.63596I		
a = -1.27658 - 1.06452I	-11.09410 + 1.87001I	0
b = -3.37497 - 3.38315I		
u = 0.10980 + 1.63370I		
a = -1.243870 - 0.667925I	-12.27640 + 0.94689I	0
b = -2.51489 - 1.49587I		
u = 0.10980 - 1.63370I		
a = -1.243870 + 0.667925I	-12.27640 - 0.94689I	0
b = -2.51489 + 1.49587I		
u = -0.14236 + 1.63151I		
a = 1.60169 - 0.04119I	-7.86900 - 5.39498I	0
b = 3.11449 - 0.09048I		
u = -0.14236 - 1.63151I		
a = 1.60169 + 0.04119I	-7.86900 + 5.39498I	0
b = 3.11449 + 0.09048I		
u = 0.18027 + 1.63208I		
a = 1.118390 + 0.583138I	-15.1614 + 5.2174I	0
b = 2.08381 + 1.15494I		
u = 0.18027 - 1.63208I		
a = 1.118390 - 0.583138I	-15.1614 - 5.2174I	0
b = 2.08381 - 1.15494I		
u = 0.14361 + 1.64435I		
a = -2.11765 - 0.04963I	-11.3977 + 10.6415I	0
b = -4.19419 - 0.00744I		
u = 0.14361 - 1.64435I		
a = -2.11765 + 0.04963I	-11.3977 - 10.6415I	0
b = -4.19419 + 0.00744I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.09631 + 1.66230I		
a = 2.20269 - 0.24901I	-17.5922 + 6.6845I	0
b = 4.20217 - 0.38809I		
u = 0.09631 - 1.66230I		
a = 2.20269 + 0.24901I	-17.5922 - 6.6845I	0
b = 4.20217 + 0.38809I		
u = -0.328502 + 0.059345I		
a = 2.21199 - 2.70852I	-1.42146 + 3.57364I	4.61344 - 2.53748I
b = -0.726650 - 0.503743I		
u = -0.328502 - 0.059345I		
a = 2.21199 + 2.70852I	-1.42146 - 3.57364I	4.61344 + 2.53748I
b = -0.726650 + 0.503743I		
u = -0.17610 + 1.65959I		
a = -1.52509 + 0.08404I	-10.1779 - 10.7238I	0
b = -3.02998 + 0.08952I		
u = -0.17610 - 1.65959I		
a = -1.52509 - 0.08404I	-10.1779 + 10.7238I	0
b = -3.02998 - 0.08952I		
u = 0.16399 + 1.66168I		
a = 1.98755 + 0.07708I	-14.0467 + 16.5764I	0
b = 4.04967 + 0.09312I		
u = 0.16399 - 1.66168I		
a = 1.98755 - 0.07708I	-14.0467 - 16.5764I	0
b = 4.04967 - 0.09312I		
u = 0.184110 + 0.262726I		
a = -2.32875 - 0.09910I	0.19160 - 1.53066I	0.415592 + 0.997580I
b = 0.492273 + 0.447222I		
u = 0.184110 - 0.262726I		
a = -2.32875 + 0.09910I	0.19160 + 1.53066I	0.415592 - 0.997580I
b = 0.492273 - 0.447222I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.07757 + 1.68352I		
a = -1.51866 - 0.11008I	-13.07090 - 2.69496I	0
b = -3.13003 - 0.08518I		
u = -0.07757 - 1.68352I		
a = -1.51866 + 0.11008I	-13.07090 + 2.69496I	0
b = -3.13003 + 0.08518I		
u = 0.10895 + 1.70761I		
a = 1.271630 + 0.476012I	-15.7142 - 2.6891I	0
b = 2.67034 + 0.89787I		
u = 0.10895 - 1.70761I		
a = 1.271630 - 0.476012I	-15.7142 + 2.6891I	0
b = 2.67034 - 0.89787I		

II.
$$I_2^u = \langle u^2 a + b, -10u^2 a + 13u^2 + \dots - 15a + 17, u^3 + u^2 + 2u + 1 \rangle$$

(i) Arc colorings

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} a \\ -u^{2}a \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

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

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

$$a_{7} = \begin{pmatrix} u^{2} + 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 2a \\ -2u^{2}a - au \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -u \\ -u^{2} - u - 1 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} u^{2}a - \frac{4}{5}u^{2} + a + \frac{2}{5}u - \frac{6}{5} \\ -u^{2}a - au + \frac{1}{5}u^{2} - a + \frac{7}{5}u + \frac{4}{5} \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $\frac{27}{5}u^2a + \frac{74}{5}au + \frac{87}{25}u^2 + \frac{53}{5}a + \frac{94}{25}u + \frac{133}{25}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$(u^2 - u + 1)^3$
c_2	$(u^2+u+1)^3$
<i>c</i> ₃	$25(25u^6 - 20u^5 + 21u^4 - 6u^3 + 5u^2 - u + 1)$
C_4	$25(25u^6 - 35u^5 + 29u^4 - 18u^3 + 9u^2 - 4u + 1)$
<i>C</i> ₆	$(u^3 - u^2 + 1)^2$
c_{7}, c_{8}	$(u^3 + u^2 + 2u + 1)^2$
<i>c</i> ₉	u^6
c_{10}	$(u^3 + u^2 - 1)^2$
c_{11}, c_{12}	$(u^3 - u^2 + 2u - 1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_5	$(y^2+y+1)^3$
c_3	$625(625y^6 + 650y^5 + 451y^4 + 184y^3 + 55y^2 + 9y + 1)$
C ₄	$625(625y^6 + 225y^5 + 31y^4 - 32y^3 - 5y^2 + 2y + 1)$
c_6, c_{10}	$(y^3 - y^2 + 2y - 1)^2$
c_7, c_8, c_{11} c_{12}	$(y^3 + 3y^2 + 2y - 1)^2$
<i>C</i> 9	y^6

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.215080 + 1.307140I		
a = -0.432147 - 0.224180I	-3.02413 - 4.85801I	2.36205 + 10.05749I
b = -0.592331 - 0.615655I		
u = -0.215080 + 1.307140I		
a = 0.410219 - 0.262160I	-3.02413 - 0.79824I	3.05664 - 3.74022I
b = 0.829338 - 0.205146I		
u = -0.215080 - 1.307140I		
a = -0.432147 + 0.224180I	-3.02413 + 4.85801I	2.36205 - 10.05749I
b = -0.592331 + 0.615655I		
u = -0.215080 - 1.307140I		
a = 0.410219 + 0.262160I	-3.02413 + 0.79824I	3.05664 + 3.74022I
b = 0.829338 + 0.205146I		
u = -0.569840		
a = 0.421928 + 0.730800I	1.11345 - 2.02988I	5.96131 + 2.86462I
b = -0.137007 - 0.237304I		
u = -0.569840		
a = 0.421928 - 0.730800I	1.11345 + 2.02988I	5.96131 - 2.86462I
b = -0.137007 + 0.237304I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u^2 - u + 1)^3)(u^{84} + 40u^{83} + \dots + 3294u + 625)$
c_2	$((u^2 + u + 1)^3)(u^{84} + 4u^{83} + \dots + 166u + 25)$
<i>c</i> ₃	$625(25u^{6} - 20u^{5} + 21u^{4} - 6u^{3} + 5u^{2} - u + 1)$ $\cdot (25u^{84} + 105u^{83} + \dots - 18688u + 2563)$
c_4	$625(25u^{6} - 35u^{5} + 29u^{4} - 18u^{3} + 9u^{2} - 4u + 1)$ $\cdot (25u^{84} + 10u^{83} + \dots + 227461u + 20617)$
c_5	$((u^2 - u + 1)^3)(u^{84} + 4u^{83} + \dots + 166u + 25)$
c_6	$((u^3 - u^2 + 1)^2)(u^{84} - 3u^{83} + \dots - 3u + 1)$
c_7, c_8	$((u^3 + u^2 + 2u + 1)^2)(u^{84} + 3u^{83} + \dots + 3u + 1)$
<i>c</i> ₉	$u^6(u^{84} - u^{83} + \dots + 8800u + 8000)$
c_{10}	$((u^3 + u^2 - 1)^2)(u^{84} - 3u^{83} + \dots - 3u + 1)$
c_{11}, c_{12}	$((u^3 - u^2 + 2u - 1)^2)(u^{84} + 3u^{83} + \dots + 3u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y^2 + y + 1)^3)(y^{84} + 12y^{83} + \dots - 3086686y + 390625)$
c_2, c_5	$((y^2 + y + 1)^3)(y^{84} + 40y^{83} + \dots + 3294y + 625)$
c_3	$390625(625y^{6} + 650y^{5} + 451y^{4} + 184y^{3} + 55y^{2} + 9y + 1)$ $\cdot (625y^{84} - 31725y^{83} + \dots - 122497860y + 6568969)$
c_4	$390625(625y^{6} + 225y^{5} + 31y^{4} - 32y^{3} - 5y^{2} + 2y + 1)$ $\cdot (625y^{84} - 13650y^{83} + \dots - 53430131371y + 425060689)$
c_6, c_{10}	$((y^3 - y^2 + 2y - 1)^2)(y^{84} + 47y^{83} + \dots + 19y + 1)$
c_7, c_8, c_{11} c_{12}	$((y^3 + 3y^2 + 2y - 1)^2)(y^{84} + 99y^{83} + \dots + 19y + 1)$
c_9	$y^{6}(y^{84} - 35y^{83} + \dots - 7.89120 \times 10^{8}y + 6.40000 \times 10^{7})$