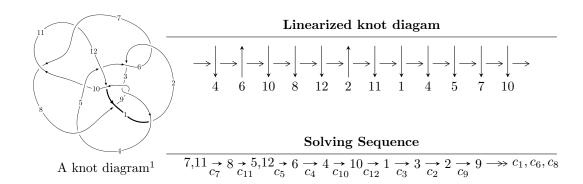
$12n_{0766} \ (K12n_{0766})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 4.30257 \times 10^{223}u^{73} - 1.59534 \times 10^{224}u^{72} + \dots + 3.52832 \times 10^{224}b - 2.38648 \times 10^{226}, \\ &- 1.18385 \times 10^{227}u^{73} + 4.85389 \times 10^{227}u^{72} + \dots + 1.03768 \times 10^{228}a + 1.60594 \times 10^{229}, \\ &2u^{74} - 7u^{73} + \dots - 16845u - 2941 \rangle \\ I_2^u &= \langle -3.25053 \times 10^{21}u^{25} - 6.44125 \times 10^{21}u^{24} + \dots + 2.54323 \times 10^{21}b - 7.68603 \times 10^{21}, \\ &4.00630 \times 10^{22}u^{25} + 4.85877 \times 10^{22}u^{24} + \dots + 1.27162 \times 10^{22}a - 9.79215 \times 10^{22}, \ 2u^{26} + 3u^{25} + \dots + 3u + 1.00630 \times 10^{22}u^{24} + \dots + 1.00630 \times 10^$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 100 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.
$$I_1^u = \langle 4.30 \times 10^{223} u^{73} - 1.60 \times 10^{224} u^{72} + \cdots + 3.53 \times 10^{224} b - 2.39 \times 10^{226}, \ -1.18 \times 10^{227} u^{73} + 4.85 \times 10^{227} u^{72} + \cdots + 1.04 \times 10^{228} a + 1.61 \times 10^{229}, \ 2u^{74} - 7u^{73} + \cdots - 16845 u - 2941 \rangle$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.114087u^{73} - 0.467764u^{72} + \dots - 245.040u - 15.4763 \\ -0.121944u^{73} + 0.452153u^{72} + \dots + 532.776u + 67.6377 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 0.0868585u^{73} - 0.413586u^{72} + \dots + 129.619u + 47.9189 \\ -0.0947156u^{73} + 0.397975u^{72} + \dots + 158.117u + 4.24257 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.0617274u^{73} - 0.381249u^{72} + \dots + 696.582u + 152.833 \\ -0.0171680u^{73} + 0.135545u^{72} + \dots + 3468.82u + 582.248 \\ 0.351363u^{73} - 0.929137u^{72} + \dots + 4120.61u - 695.633 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.286378u^{73} - 1.50591u^{72} + \dots + 2610.83u + 594.370 \\ -0.182080u^{73} + 1.24961u^{72} + \dots - 3728.07u - 779.031 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.665053u^{73} - 3.07468u^{72} + \dots + 1842.56u + 551.877 \\ -0.448541u^{73} + 2.43442u^{72} + \dots - 3955.59u - 895.987 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.275851u^{73} - 1.31333u^{72} + \dots + 1415.83u + 352.827 \\ -0.132560u^{73} + 0.746912u^{72} + \dots - 1432.05u - 319.676 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.530006u^{73} + 1.62015u^{72} + \dots + 4466.85u + 715.631 \\ 0.503235u^{73} - 1.26199u^{72} + \dots + 6391.55u - 1090.11 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.310330u^{73} 0.873656u^{72} + \cdots 3442.04u 587.923$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$2(2u^{74} - 3u^{73} + \dots + 5635u + 1357)$
c_2, c_6	$u^{74} - 2u^{73} + \dots - 215u + 91$
c_3, c_9	$2(2u^{74} + 5u^{73} + \dots + 1357162u - 1267391)$
c_4	$u^{74} + 2u^{73} + \dots - 15076u + 11221$
c_5	$u^{74} + u^{73} + \dots + 15239u - 3254$
c_7, c_{11}	$2(2u^{74} + 7u^{73} + \dots + 16845u - 2941)$
c_8	$u^{74} + u^{73} + \dots - 327620u - 108299$
c_{10}	$u^{74} + u^{73} + \dots - 2955u - 682$
c_{12}	$4(4u^{74} - 55u^{73} + \dots - 5042508u + 189693)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$4(4y^{74} - 365y^{73} + \dots - 4.76298 \times 10^8y + 1841449)$
c_2, c_6	$y^{74} + 44y^{73} + \dots + 374559y + 8281$
c_3, c_9	$4(4y^{74} - 385y^{73} + \dots - 1.71162 \times 10^{13}y + 1.60628 \times 10^{12})$
C_4	$y^{74} + 42y^{73} + \dots + 674142038y + 125910841$
c_5	$y^{74} - 23y^{73} + \dots - 131821697y + 10588516$
c_7,c_{11}	$4(4y^{74} + 223y^{73} + \dots + 5.75137 \times 10^7 y + 8649481)$
c ₈	$y^{74} - 73y^{73} + \dots - 102167052718y + 11728673401$
c_{10}	$y^{74} + 27y^{73} + \dots + 11416983y + 465124$
c_{12}	$16(16y^{74} - 1361y^{73} + \dots - 3.95388 \times 10^{12}y + 3.59834 \times 10^{10})$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.282540 + 0.965432I		
a = 1.97958 - 0.61451I	5.94493 + 1.20153I	0
b = -2.36679 + 0.10892I		
u = -0.282540 - 0.965432I		
a = 1.97958 + 0.61451I	5.94493 - 1.20153I	0
b = -2.36679 - 0.10892I		
u = -0.273716 + 0.955237I		
a = 0.964437 + 0.589339I	-4.12089 + 2.31752I	0
b = -1.65206 - 1.31053I		
u = -0.273716 - 0.955237I		
a = 0.964437 - 0.589339I	-4.12089 - 2.31752I	0
b = -1.65206 + 1.31053I		
u = 0.850496 + 0.543632I		
a = 0.560041 - 0.577085I	-3.21620 - 2.62127I	0
b = 0.286399 + 0.141759I		
u = 0.850496 - 0.543632I		
a = 0.560041 + 0.577085I	-3.21620 + 2.62127I	0
b = 0.286399 - 0.141759I		
u = 0.129802 + 0.975847I		
a = -0.906793 - 0.098111I	1.63235 - 1.32777I	0
b = 1.82693 - 1.49863I		
u = 0.129802 - 0.975847I		
a = -0.906793 + 0.098111I	1.63235 + 1.32777I	0
b = 1.82693 + 1.49863I		
u = 0.227538 + 0.989919I		
a = -0.949692 + 0.421748I	-0.40348 - 4.84228I	0
b = 1.44010 + 0.70533I		
u = 0.227538 - 0.989919I		
a = -0.949692 - 0.421748I	-0.40348 + 4.84228I	0
b = 1.44010 - 0.70533I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.451986 + 0.911224I		
a = -0.986328 + 0.186176I	-1.94739 - 2.05739I	0
b = 1.36894 - 0.72134I		
u = 0.451986 - 0.911224I		
a = -0.986328 - 0.186176I	-1.94739 + 2.05739I	0
b = 1.36894 + 0.72134I		
u = -0.882267 + 0.418072I		
a = 0.794732 + 0.966645I	-11.22430 - 3.31101I	0
b = 0.102572 + 0.568615I		
u = -0.882267 - 0.418072I		
a = 0.794732 - 0.966645I	-11.22430 + 3.31101I	0
b = 0.102572 - 0.568615I		
u = -0.326030 + 1.001260I		
a = 1.78729 - 0.35964I	8.32262 + 1.34742I	0
b = -2.07467 + 0.41391I		
u = -0.326030 - 1.001260I		
a = 1.78729 + 0.35964I	8.32262 - 1.34742I	0
b = -2.07467 - 0.41391I		
u = 0.112227 + 0.923316I		
a = -0.552088 - 1.134390I	1.41563 + 0.22117I	-8.00000 + 0.I
b = 0.487672 - 0.685782I		
u = 0.112227 - 0.923316I		
a = -0.552088 + 1.134390I	1.41563 - 0.22117I	-8.00000 + 0.I
b = 0.487672 + 0.685782I		
u = 0.819659 + 0.410089I		
a = -0.311016 + 1.351220I	-3.45418 + 3.81432I	-8.00000 - 3.44974I
b = -0.577110 - 0.608864I		
u = 0.819659 - 0.410089I		
a = -0.311016 - 1.351220I	-3.45418 - 3.81432I	-8.00000 + 3.44974I
b = -0.577110 + 0.608864I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.884708 + 0.626615I		
a = -1.022130 - 0.689132I	-8.51884 - 2.65252I	0
b = 1.252530 - 0.402107I		
u = 0.884708 - 0.626615I		
a = -1.022130 + 0.689132I	-8.51884 + 2.65252I	0
b = 1.252530 + 0.402107I		
u = -0.843390 + 0.327145I		
a = 0.313849 + 1.164510I	-1.78911 - 2.87710I	-11.42016 + 4.01103I
b = 0.515054 - 0.008704I		
u = -0.843390 - 0.327145I		
a = 0.313849 - 1.164510I	-1.78911 + 2.87710I	-11.42016 - 4.01103I
b = 0.515054 + 0.008704I		
u = 0.932065 + 0.593886I		
a = -0.359516 - 0.399971I	-1.16017 + 1.30316I	0
b = -0.016925 + 0.207404I		
u = 0.932065 - 0.593886I		
a = -0.359516 + 0.399971I	-1.16017 - 1.30316I	0
b = -0.016925 - 0.207404I		
u = -0.248102 + 1.112950I		
a = 0.348133 + 0.638683I	2.02889 + 4.36880I	0
b = -0.168692 + 0.673985I		
u = -0.248102 - 1.112950I		
a = 0.348133 - 0.638683I	2.02889 - 4.36880I	0
b = -0.168692 - 0.673985I		
u = -0.296484 + 1.119460I		
a = -0.42766 + 1.64773I	-6.67297 + 7.19206I	0
b = 1.195140 - 0.619228I		
u = -0.296484 - 1.119460I		
a = -0.42766 - 1.64773I	-6.67297 - 7.19206I	0
b = 1.195140 + 0.619228I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.139612 + 1.164800I		
a = -0.503559 + 0.439878I	2.38650 + 3.81134I	0
b = 1.40916 + 0.71610I		
u = -0.139612 - 1.164800I		
a = -0.503559 - 0.439878I	2.38650 - 3.81134I	0
b = 1.40916 - 0.71610I		
u = -0.085205 + 0.815728I		
a = 0.10305 - 2.33544I	-5.12415 - 0.44406I	-5.45474 - 1.65343I
b = -0.104807 + 0.812551I		
u = -0.085205 - 0.815728I		
a = 0.10305 + 2.33544I	-5.12415 + 0.44406I	-5.45474 + 1.65343I
b = -0.104807 - 0.812551I		
u = -0.480089 + 1.115540I		
a = -0.721167 - 0.211751I	-9.01588 + 8.24429I	0
b = 2.27508 + 1.18426I		
u = -0.480089 - 1.115540I		
a = -0.721167 + 0.211751I	-9.01588 - 8.24429I	0
b = 2.27508 - 1.18426I		
u = -0.037495 + 1.218510I		
a = 0.588125 - 0.286537I	3.51297 - 0.84853I	0
b = -1.72908 - 0.14105I		
u = -0.037495 - 1.218510I		
a = 0.588125 + 0.286537I	3.51297 + 0.84853I	0
b = -1.72908 + 0.14105I		
u = -0.041616 + 1.282970I		
a = 0.608968 - 0.136991I	3.82386 - 0.95845I	0
b = -2.12837 + 0.42808I		
u = -0.041616 - 1.282970I		
a = 0.608968 + 0.136991I	3.82386 + 0.95845I	0
b = -2.12837 - 0.42808I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.564418 + 0.431263I		
a = -1.186740 + 0.350705I	2.33020 + 1.82399I	-2.62562 - 4.08720I
b = 0.143898 - 0.524191I		
u = -0.564418 - 0.431263I		
a = -1.186740 - 0.350705I	2.33020 - 1.82399I	-2.62562 + 4.08720I
b = 0.143898 + 0.524191I		
u = 0.565832 + 1.189960I		
a = 1.385630 - 0.142564I	-0.95117 - 9.06853I	0
b = -2.04227 + 0.69658I		
u = 0.565832 - 1.189960I		
a = 1.385630 + 0.142564I	-0.95117 + 9.06853I	0
b = -2.04227 - 0.69658I		
u = -0.540516 + 1.218140I		
a = -1.192520 - 0.017762I	1.05457 + 8.06406I	0
b = 2.16082 + 0.66660I		
u = -0.540516 - 1.218140I		
a = -1.192520 + 0.017762I	1.05457 - 8.06406I	0
b = 2.16082 - 0.66660I		
u = 0.862645 + 1.082460I		
a = -0.462609 - 0.839310I	-7.35921 - 3.79262I	0
b = 1.310950 + 0.310610I		
u = 0.862645 - 1.082460I		
a = -0.462609 + 0.839310I	-7.35921 + 3.79262I	0
b = 1.310950 - 0.310610I		
u = -1.380710 + 0.230252I		
a = 0.269437 - 0.278275I	-0.389474 - 0.354384I	0
b = 0.202962 + 0.463666I		
u = -1.380710 - 0.230252I		
a = 0.269437 + 0.278275I	-0.389474 + 0.354384I	0
b = 0.202962 - 0.463666I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.210951 + 1.392990I		
a = 0.695783 - 0.339602I	-2.01031 - 5.75879I	0
b = -2.28329 - 0.58609I		
u = 0.210951 - 1.392990I		
a = 0.695783 + 0.339602I	-2.01031 + 5.75879I	0
b = -2.28329 + 0.58609I		
u = 1.413210 + 0.032389I		
a = 0.466955 - 0.622175I	-9.23639 + 9.54301I	0
b = 0.322562 - 0.042703I		
u = 1.413210 - 0.032389I		
a = 0.466955 + 0.622175I	-9.23639 - 9.54301I	0
b = 0.322562 + 0.042703I		
u = -0.314553 + 0.484519I		
a = -2.08380 + 0.18127I	-8.72504 - 4.53070I	-9.46563 - 0.03654I
b = 1.38082 + 1.62692I		
u = -0.314553 - 0.484519I		
a = -2.08380 - 0.18127I	-8.72504 + 4.53070I	-9.46563 + 0.03654I
b = 1.38082 - 1.62692I		
u = 0.40349 + 1.40042I		
a = 0.850562 - 0.225517I	4.66305 - 3.47646I	0
b = -1.73948 + 0.45576I		
u = 0.40349 - 1.40042I		
a = 0.850562 + 0.225517I	4.66305 + 3.47646I	0
b = -1.73948 - 0.45576I		
u = -0.22989 + 1.46784I		
a = 1.023780 + 0.634462I	8.50502 + 4.79512I	0
b = -1.97633 - 0.61949I		
u = -0.22989 - 1.46784I		
a = 1.023780 - 0.634462I	8.50502 - 4.79512I	0
b = -1.97633 + 0.61949I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.68098 + 1.32491I		
a = -1.015860 - 0.099869I	3.51452 + 6.72221I	0
b = 1.48438 + 0.51385I		
u = -0.68098 - 1.32491I		
a = -1.015860 + 0.099869I	3.51452 - 6.72221I	0
b = 1.48438 - 0.51385I		
u = 0.480013		
a = -0.978637	-0.717809	-13.7110
b = 0.105834		
u = -0.460554		
a = -2.63177	-6.45678	-18.2290
b = 0.222685		
u = 0.55731 + 1.44922I		
a = -0.782460 + 0.229973I	3.10250 - 8.98573I	0
b = 1.58134 - 0.58286I		
u = 0.55731 - 1.44922I		
a = -0.782460 - 0.229973I	3.10250 + 8.98573I	0
b = 1.58134 + 0.58286I		
u = 0.64625 + 1.43646I		
a = -1.052510 + 0.238181I	-4.8082 - 16.5804I	0
b = 2.06068 - 0.85585I		
u = 0.64625 - 1.43646I		
a = -1.052510 - 0.238181I	-4.8082 + 16.5804I	0
b = 2.06068 + 0.85585I		
u = -0.341097 + 0.196071I		
a = -0.512603 + 0.829174I	-0.55991 - 1.68520I	-3.94366 + 2.95348I
b = 0.500629 + 0.652787I		
u = -0.341097 - 0.196071I		
a = -0.512603 - 0.829174I	-0.55991 + 1.68520I	-3.94366 - 2.95348I
b = 0.500629 - 0.652787I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.53573 + 1.88702I		
a = -0.244801 + 0.238485I	-1.22442 + 0.74078I	0
b = 0.202955 - 0.369257I		
u = 0.53573 - 1.88702I		
a = -0.244801 - 0.238485I	-1.22442 - 0.74078I	0
b = 0.202955 + 0.369257I		
u = 0.12508 + 2.04317I		
a = 0.299929 - 0.278914I	-2.79671 + 1.13420I	0
b = -0.815962 + 0.338188I		
u = 0.12508 - 2.04317I		
a = 0.299929 + 0.278914I	-2.79671 - 1.13420I	0
b = -0.815962 - 0.338188I		

II.
$$I_2^u = \langle -3.25 \times 10^{21} u^{25} - 6.44 \times 10^{21} u^{24} + \dots + 2.54 \times 10^{21} b - 7.69 \times 10^{21}, \ 4.01 \times 10^{22} u^{25} + 4.86 \times 10^{22} u^{24} + \dots + 1.27 \times 10^{22} a - 9.79 \times 10^{22}, \ 2u^{26} + 3u^{25} + \dots + 3u + 5 \rangle$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -3.15056u^{25} - 3.82094u^{24} + \dots - 32.1591u + 7.70055 \\ 1.27811u^{25} + 2.53270u^{24} + \dots + 10.2992u + 3.02215 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} -3.17174u^{25} - 2.90632u^{24} + \dots - 34.5596u + 11.5016 \\ 1.29929u^{25} + 1.61808u^{24} + \dots + 12.6997u - 0.778933 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -3.02056u^{25} - 2.73307u^{24} + \dots - 28.3790u + 12.9849 \\ 1.04423u^{25} + 1.41495u^{24} + \dots + 8.63488u + 0.789972 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1.28799u^{25} - 1.45837u^{24} + \dots - 24.5359u + 9.00385 \\ 0.947693u^{25} + 1.79106u^{24} + \dots + 14.4576u - 1.69050 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 4.14969u^{25} + 4.29557u^{24} + \dots + 59.5932u - 13.0060 \\ -0.880620u^{25} - 0.966252u^{24} + \dots - 19.0119u + 1.59597 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 0.182558u^{25} - 0.176354u^{24} + \dots + 25.0268u - 7.11541 \\ 0.533120u^{25} + 1.45644u^{24} + \dots - 6.50589u + 6.77145 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.743734u^{25} + 0.470887u^{24} + \dots + 12.7345u - 0.708825 \\ -0.796874u^{25} - 0.999327u^{24} + \dots - 10.5483u + 2.03149 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -3.07289u^{25} - 3.63312u^{24} + \dots - 55.1391u + 17.4838 \\ 1.26243u^{25} + 2.27407u^{24} + \dots + 19.9727u - 4.31308 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{8957706328472547967206}{2543234894966602321649}u^{25} - \frac{15083092567838434344417}{2543234894966602321649}u^{24} + \cdots - \frac{142260302926776775260119}{2543234894966602321649}u^{24} + \frac{15083092567838434344417}{2543234894966602321649}u^{25} - \frac{150830925678384344417}{2543234894966602321649}u^{25} - \frac{15083092567838434344417}{2543234894966602321649}u^{25} - \frac{15083092567838434344417}{2543234894966602321649}u^{25} - \frac{15083092567838434344417}{2543234894966602321649}u^{25} - \frac{150830925678384344417}{2543234894966602321649}u^{25} - \frac{1508309256784844417}{2543234894966602321649}u^{25} - \frac{150830925678484417}{2543234894966602321649}u^{25} - \frac{150830925678678484417}{2$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$2(2u^{26} - 27u^{25} + \dots - 101u + 43)$
c_2	$u^{26} - u^{25} + \dots + 3u + 1$
c_3	$2(2u^{26} + 7u^{25} + \dots + 2u + 1)$
c_4	$u^{26} + u^{25} + \dots + 60u + 31$
c_5	$u^{26} + 2u^{25} + \dots + u + 2$
c ₆	$u^{26} + u^{25} + \dots - 3u + 1$
c_7	$2(2u^{26} + 3u^{25} + \dots + 3u + 5)$
<i>c</i> ₈	$u^{26} + 4u^{25} + \dots - 2u + 1$
<i>C</i> 9	$2(2u^{26} - 7u^{25} + \dots - 2u + 1)$
c_{10}	$u^{26} + 7u^{24} + \dots + u + 2$
c_{11}	$2(2u^{26} - 3u^{25} + \dots - 3u + 5)$
c_{12}	$4(4u^{26} - 11u^{25} + \dots - 74u + 19)$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$4(4y^{26} - 113y^{25} + \dots + 3645y + 1849)$
c_2, c_6	$y^{26} + 7y^{25} + \dots + 15y + 1$
c_3, c_9	$4(4y^{26} - 37y^{25} + \dots + 4y + 1)$
c_4	$y^{26} + 21y^{25} + \dots + 4646y + 961$
c_5	$y^{26} + 20y^{24} + \dots + 103y + 4$
c_7, c_{11}	$4(4y^{26} + 107y^{25} + \dots + 581y + 25)$
c ₈	$y^{26} - 6y^{25} + \dots + 14y + 1$
c_{10}	$y^{26} + 14y^{25} + \dots - y + 4$
c_{12}	$16(16y^{26} - 545y^{25} + \dots - 6160y + 361)$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.093841 + 1.031720I		
a = -1.86117 - 0.11292I	6.38440 + 0.40642I	-3.29683 + 1.73011I
b = 2.26755 - 0.34607I		
u = -0.093841 - 1.031720I		
a = -1.86117 + 0.11292I	6.38440 - 0.40642I	-3.29683 - 1.73011I
b = 2.26755 + 0.34607I		
u = -0.892339 + 0.285855I		
a = -0.698036 + 0.392925I	-0.34275 + 1.53093I	-9.99239 - 3.21099I
b = -0.490163 - 0.492975I		
u = -0.892339 - 0.285855I		
a = -0.698036 - 0.392925I	-0.34275 - 1.53093I	-9.99239 + 3.21099I
b = -0.490163 + 0.492975I		
u = 0.857561 + 0.346086I		
a = 0.170569 - 0.299589I	-1.62614 + 1.72699I	-14.2649 - 3.7983I
b = -0.159930 + 0.592271I		
u = 0.857561 - 0.346086I		
a = 0.170569 + 0.299589I	-1.62614 - 1.72699I	-14.2649 + 3.7983I
b = -0.159930 - 0.592271I		
u = -0.441215 + 1.028280I		
a = -1.59099 + 0.55970I	8.13583 + 1.76508I	-6.93534 - 8.95904I
b = 2.07746 - 0.27910I		
u = -0.441215 - 1.028280I		
a = -1.59099 - 0.55970I	8.13583 - 1.76508I	-6.93534 + 8.95904I
b = 2.07746 + 0.27910I		
u = 0.120572 + 1.131100I		
a = 0.661863 + 0.339366I	2.95392 - 3.52625I	0.774646 + 0.743499I
b = -1.76827 + 1.10631I		
u = 0.120572 - 1.131100I		
a = 0.661863 - 0.339366I	2.95392 + 3.52625I	0.774646 - 0.743499I
b = -1.76827 - 1.10631I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.504964 + 0.668691I		
a = 0.081169 + 1.214460I	-8.64330 - 6.02727I	-9.72659 + 4.66930I
b = -1.76357 - 0.68487I		
u = 0.504964 - 0.668691I		
a = 0.081169 - 1.214460I	-8.64330 + 6.02727I	-9.72659 - 4.66930I
b = -1.76357 + 0.68487I		
u = 0.255755 + 1.173940I		
a = -0.827640 + 0.464151I	0.39482 - 5.40053I	-4.61104 + 7.42054I
b = 1.64429 + 0.44080I		
u = 0.255755 - 1.173940I		
a = -0.827640 - 0.464151I	0.39482 + 5.40053I	-4.61104 - 7.42054I
b = 1.64429 - 0.44080I		
u = 0.017834 + 1.281180I		
a = -0.518334 + 0.025264I	3.97615 + 0.02420I	-1.50757 + 0.97966I
b = 2.18360 - 0.78912I		
u = 0.017834 - 1.281180I		
a = -0.518334 - 0.025264I	3.97615 - 0.02420I	-1.50757 - 0.97966I
b = 2.18360 + 0.78912I		
u = 0.012793 + 0.520722I		
a = 1.35963 + 1.19227I	0.84916 + 2.58424I	-7.44172 - 4.08752I
b = -0.422136 + 1.022280I		
u = 0.012793 - 0.520722I		
a = 1.35963 - 1.19227I	0.84916 - 2.58424I	-7.44172 + 4.08752I
b = -0.422136 - 1.022280I		
u = -0.23818 + 1.50712I		
a = -0.960593 - 0.604711I	8.27085 + 4.64071I	-15.0125 + 3.7642I
b = 1.96189 + 0.59778I		
u = -0.23818 - 1.50712I		
a = -0.960593 + 0.604711I	8.27085 - 4.64071I	-15.0125 - 3.7642I
b = 1.96189 - 0.59778I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.61918 + 1.41182I a = 0.921209 + 0.081616I b = -1.63904 - 0.46965I	4.53565 + 8.09953I	-3.94785 - 6.19470I
	4.53565 - 8.09953I	-3.94785 + 6.19470I
u = -0.091702 + 0.419701I $a = -1.08553 - 3.39215I$ $b = 0.372307 + 0.860688I$	-5.76127 + 0.88146I	-14.4603 - 4.2768I
u = -0.091702 - 0.419701I $a = -1.08553 + 3.39215I$ $b = 0.372307 - 0.860688I$	-5.76127 - 0.88146I	-14.4603 + 4.2768I
u = -0.14302 + 2.03303I $a = -0.052154 + 0.337702I$ $b = 0.236008 - 0.418304I$	-1.033050 + 0.572499I	0
u = -0.14302 - 2.03303I $a = -0.052154 - 0.337702I$ $b = 0.236008 + 0.418304I$	-1.033050 - 0.572499I	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$4(2u^{26} - 27u^{25} + \dots - 101u + 43)(2u^{74} - 3u^{73} + \dots + 5635u + 1357)$
c_2	$(u^{26} - u^{25} + \dots + 3u + 1)(u^{74} - 2u^{73} + \dots - 215u + 91)$
c_3	$4(2u^{26} + 7u^{25} + \dots + 2u + 1)$ $\cdot (2u^{74} + 5u^{73} + \dots + 1357162u - 1267391)$
C_4	$ (u^{26} + u^{25} + \dots + 60u + 31)(u^{74} + 2u^{73} + \dots - 15076u + 11221) $
c_5	$(u^{26} + 2u^{25} + \dots + u + 2)(u^{74} + u^{73} + \dots + 15239u - 3254)$
<i>c</i> ₆	$(u^{26} + u^{25} + \dots - 3u + 1)(u^{74} - 2u^{73} + \dots - 215u + 91)$
c_7	$4(2u^{26} + 3u^{25} + \dots + 3u + 5)(2u^{74} + 7u^{73} + \dots + 16845u - 2941)$
<i>C</i> ₈	$(u^{26} + 4u^{25} + \dots - 2u + 1)(u^{74} + u^{73} + \dots - 327620u - 108299)$
<i>c</i> ₉	$4(2u^{26} - 7u^{25} + \dots - 2u + 1)$ $\cdot (2u^{74} + 5u^{73} + \dots + 1357162u - 1267391)$
c_{10}	$(u^{26} + 7u^{24} + \dots + u + 2)(u^{74} + u^{73} + \dots - 2955u - 682)$
c_{11}	$4(2u^{26} - 3u^{25} + \dots - 3u + 5)(2u^{74} + 7u^{73} + \dots + 16845u - 2941)$
c_{12}	$16(4u^{26} - 11u^{25} + \dots - 74u + 19)$ $\cdot (4u^{74} - 55u^{73} + \dots - 25042508u + 189693)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$16(4y^{26} - 113y^{25} + \dots + 3645y + 1849) \cdot (4y^{74} - 365y^{73} + \dots - 476298283y + 1841449)$
c_2, c_6	$(y^{26} + 7y^{25} + \dots + 15y + 1)(y^{74} + 44y^{73} + \dots + 374559y + 8281)$
c_3, c_9	$16(4y^{26} - 37y^{25} + \dots + 4y + 1)$ $\cdot (4y^{74} - 385y^{73} + \dots - 17116221408916y + 1606279946881)$
c_4	$(y^{26} + 21y^{25} + \dots + 4646y + 961)$ $\cdot (y^{74} + 42y^{73} + \dots + 674142038y + 125910841)$
c_5	$(y^{26} + 20y^{24} + \dots + 103y + 4)$ $\cdot (y^{74} - 23y^{73} + \dots - 131821697y + 10588516)$
c_7, c_{11}	$16(4y^{26} + 107y^{25} + \dots + 581y + 25)$ $\cdot (4y^{74} + 223y^{73} + \dots + 57513733y + 8649481)$
c_8	$(y^{26} - 6y^{25} + \dots + 14y + 1)$ $\cdot (y^{74} - 73y^{73} + \dots - 102167052718y + 11728673401)$
c_{10}	$(y^{26} + 14y^{25} + \dots - y + 4)(y^{74} + 27y^{73} + \dots + 1.14170 \times 10^{7}y + 465124)$
c_{12}	$256(16y^{26} - 545y^{25} + \dots - 6160y + 361)$ $\cdot (16y^{74} - 1361y^{73} + \dots - 3953884413420y + 35983434249)$