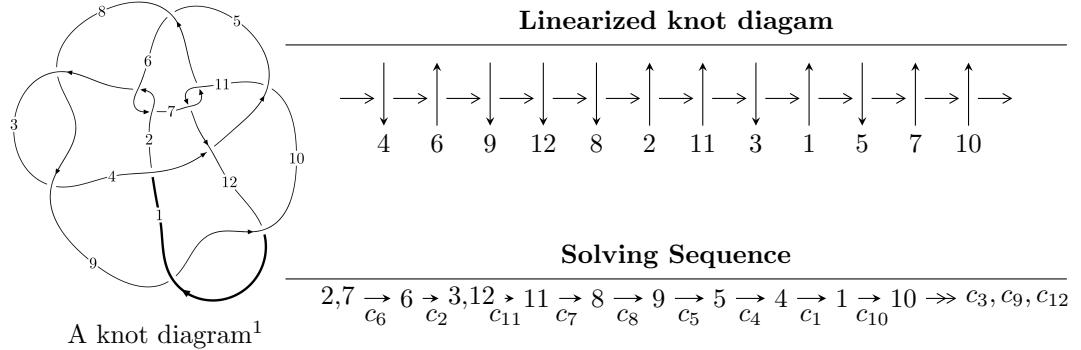


$12a_{0932}$ ($K12a_{0932}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u = & \langle -2.41105 \times 10^{799} u^{150} + 6.29072 \times 10^{798} u^{149} + \dots + 1.72778 \times 10^{801} b + 1.45209 \times 10^{805}, \\
 & -1.56739 \times 10^{805} u^{150} + 3.30443 \times 10^{804} u^{149} + \dots + 1.09830 \times 10^{807} a + 1.08834 \times 10^{811}, \\
 & u^{151} + 50u^{149} + \dots - 12000095u - 635671 \rangle \\
 I_2^u = & \langle -8.46792 \times 10^{33} u^{45} - 3.69547 \times 10^{34} u^{44} + \dots + 1.19695 \times 10^{33} b + 4.21370 \times 10^{34}, \\
 & 5.75996 \times 10^{34} u^{45} + 1.92741 \times 10^{35} u^{44} + \dots + 1.19695 \times 10^{33} a + 1.44621 \times 10^{34}, u^{46} + 3u^{45} + \dots + 6u - 1 \rangle
 \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 197 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

$$\text{I. } I_1^u = \langle -2.41 \times 10^{799} u^{150} + 6.29 \times 10^{798} u^{149} + \dots + 1.73 \times 10^{801} b + 1.45 \times 10^{805}, -1.57 \times 10^{805} u^{150} + 3.30 \times 10^{804} u^{149} + \dots + 1.10 \times 10^{807} a + 1.09 \times 10^{811}, u^{151} + 50u^{149} + \dots - 12000095u - 635671 \rangle$$

(i) **Arc colorings**

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0142711u^{150} - 0.00300868u^{149} + \dots - 180539.u - 9909.32 \\ 0.0139546u^{150} - 0.00364092u^{149} + \dots - 147724.u - 8404.37 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.000316499u^{150} + 0.000632245u^{149} + \dots - 32814.9u - 1504.94 \\ 0.0139546u^{150} - 0.00364092u^{149} + \dots - 147724.u - 8404.37 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.0165871u^{150} - 0.0245620u^{149} + \dots + 237804.u + 12996.9 \\ 0.0277901u^{150} + 0.00382596u^{149} + \dots - 227726.u - 11674.0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.000639872u^{150} - 0.0193413u^{149} + \dots + 135615.u + 7941.56 \\ 0.0243744u^{150} + 0.00465333u^{149} + \dots - 257128.u - 13410.6 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.0114673u^{150} - 0.00964512u^{149} + \dots + 91654.0u + 5521.75 \\ -0.00414055u^{150} + 0.0220643u^{149} + \dots - 100097.u - 5373.04 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.00508007u^{150} + 0.00565611u^{149} + \dots - 258979.u - 15129.5 \\ 0.00557188u^{150} + 0.0152743u^{149} + \dots - 21634.5u - 1380.27 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.00519421u^{150} - 0.00101640u^{149} + \dots + 157848.u + 9370.88 \\ 0.0297297u^{150} - 0.0138827u^{149} + \dots - 29277.1u - 857.438 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.0264609u^{150} - 0.0231937u^{149} + \dots + 416401.u + 21980.2 \\ -0.00507039u^{150} + 0.00103144u^{149} + \dots + 2108.46u - 139.846 \end{pmatrix}$$

(ii) **Obstruction class = -1**

(iii) **Cusp Shapes** = $-0.0706799u^{150} + 0.0664166u^{149} + \dots - 832660.u - 50135.3$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{151} - 15u^{150} + \cdots - 22057694910u + 1658964361$
c_2, c_6	$u^{151} + 50u^{149} + \cdots - 12000095u - 635671$
c_3, c_8	$u^{151} - u^{150} + \cdots + 40642u + 9299$
c_4	$u^{151} + 3u^{150} + \cdots + 191957u - 6301$
c_5	$u^{151} - 7u^{150} + \cdots + 13056495585u - 1546221241$
c_7, c_{11}	$u^{151} - 3u^{150} + \cdots - 44403u - 18287$
c_9, c_{12}	$u^{151} + 5u^{150} + \cdots + 31u + 1$
c_{10}	$u^{151} - u^{150} + \cdots + 2070354906u - 331170187$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{151} - 69y^{150} + \dots + 1.51 \times 10^{20}y - 2.75 \times 10^{18}$
c_2, c_6	$y^{151} + 100y^{150} + \dots - 2921995709471y - 404077620241$
c_3, c_8	$y^{151} - 139y^{150} + \dots - 4712909788y - 86471401$
c_4	$y^{151} - 17y^{150} + \dots + 25879162721y - 39702601$
c_5	$y^{151} - 83y^{150} + \dots + 1.37 \times 10^{19}y - 2.39 \times 10^{18}$
c_7, c_{11}	$y^{151} + 93y^{150} + \dots - 13900794685y - 334414369$
c_9, c_{12}	$y^{151} + 117y^{150} + \dots - 69y - 1$
c_{10}	$y^{151} - 61y^{150} + \dots + 8.43 \times 10^{18}y - 1.10 \times 10^{17}$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.865429 + 0.496053I$		
$a = -0.268547 - 0.144131I$	$0.24032 + 1.74389I$	0
$b = -0.169743 + 0.653881I$		
$u = 0.865429 - 0.496053I$		
$a = -0.268547 + 0.144131I$	$0.24032 - 1.74389I$	0
$b = -0.169743 - 0.653881I$		
$u = 0.544660 + 0.865037I$		
$a = 1.98651 + 1.02388I$	$-5.22891 + 4.97394I$	0
$b = 0.263339 + 1.062250I$		
$u = 0.544660 - 0.865037I$		
$a = 1.98651 - 1.02388I$	$-5.22891 - 4.97394I$	0
$b = 0.263339 - 1.062250I$		
$u = -1.02743$		
$a = 2.97107$	3.05308	0
$b = 1.32448$		
$u = -0.242033 + 1.033150I$		
$a = -1.73031 + 1.26498I$	$-7.80679 - 9.01651I$	0
$b = -0.447359 + 0.918474I$		
$u = -0.242033 - 1.033150I$		
$a = -1.73031 - 1.26498I$	$-7.80679 + 9.01651I$	0
$b = -0.447359 - 0.918474I$		
$u = 0.530409 + 0.774022I$		
$a = -0.995330 + 0.824807I$	$-0.139921 + 0.875960I$	0
$b = -0.325630 + 0.719551I$		
$u = 0.530409 - 0.774022I$		
$a = -0.995330 - 0.824807I$	$-0.139921 - 0.875960I$	0
$b = -0.325630 - 0.719551I$		
$u = 0.243570 + 1.042540I$		
$a = -1.15722 + 1.81109I$	$-0.83258 + 2.48333I$	0
$b = -0.078889 - 0.972468I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.243570 - 1.042540I$	$-0.83258 - 2.48333I$	0
$a = -1.15722 - 1.81109I$		
$b = -0.078889 + 0.972468I$		
$u = 1.061410 + 0.143447I$	$-5.81650 + 7.46022I$	0
$a = 1.90202 + 0.28675I$		
$b = 0.947695 + 0.058209I$		
$u = 1.061410 - 0.143447I$	$-5.81650 - 7.46022I$	0
$a = 1.90202 - 0.28675I$		
$b = 0.947695 - 0.058209I$		
$u = 0.129607 + 1.069170I$	$-4.47865 - 1.10856I$	0
$a = 0.05263 - 2.20256I$		
$b = -0.042773 + 1.024220I$		
$u = 0.129607 - 1.069170I$	$-4.47865 + 1.10856I$	0
$a = 0.05263 + 2.20256I$		
$b = -0.042773 - 1.024220I$		
$u = -0.265402 + 1.052710I$	$-3.35425 - 5.50168I$	0
$a = 1.54598 - 0.57846I$		
$b = 0.522807 - 0.919801I$		
$u = -0.265402 - 1.052710I$	$-3.35425 + 5.50168I$	0
$a = 1.54598 + 0.57846I$		
$b = 0.522807 + 0.919801I$		
$u = -0.900947 + 0.097057I$	$-10.20030 - 3.80821I$	0
$a = 0.337167 - 0.367659I$		
$b = 0.214532 - 1.215350I$		
$u = -0.900947 - 0.097057I$	$-10.20030 + 3.80821I$	0
$a = 0.337167 + 0.367659I$		
$b = 0.214532 + 1.215350I$		
$u = -0.298443 + 0.844307I$	$-10.66430 - 2.51485I$	0
$a = -0.951262 - 0.856924I$		
$b = 0.311635 - 0.762574I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.298443 - 0.844307I$		
$a = -0.951262 + 0.856924I$	$-10.66430 + 2.51485I$	0
$b = 0.311635 + 0.762574I$		
$u = 0.638574 + 0.902465I$		
$a = -1.64056 - 0.23236I$	$-0.86401 + 3.67685I$	0
$b = -0.290932 - 0.945919I$		
$u = 0.638574 - 0.902465I$		
$a = -1.64056 + 0.23236I$	$-0.86401 - 3.67685I$	0
$b = -0.290932 + 0.945919I$		
$u = 0.430723 + 1.021410I$		
$a = 0.367353 - 0.044669I$	$-2.11097 + 2.48449I$	0
$b = 0.587542 - 0.252811I$		
$u = 0.430723 - 1.021410I$		
$a = 0.367353 + 0.044669I$	$-2.11097 - 2.48449I$	0
$b = 0.587542 + 0.252811I$		
$u = 0.224900 + 0.861854I$		
$a = 1.98744 - 0.65991I$	$-3.78934 + 2.50891I$	0
$b = 0.268852 - 0.617564I$		
$u = 0.224900 - 0.861854I$		
$a = 1.98744 + 0.65991I$	$-3.78934 - 2.50891I$	0
$b = 0.268852 + 0.617564I$		
$u = -0.309284 + 1.075300I$		
$a = 0.725149 + 0.242007I$	$-8.23597 - 4.81426I$	0
$b = 1.039710 - 0.692197I$		
$u = -0.309284 - 1.075300I$		
$a = 0.725149 - 0.242007I$	$-8.23597 + 4.81426I$	0
$b = 1.039710 + 0.692197I$		
$u = -0.872510 + 0.109907I$		
$a = -0.341550 - 0.900308I$	$-3.69772 - 1.50417I$	0
$b = -0.376088 - 0.847274I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.872510 - 0.109907I$		
$a = -0.341550 + 0.900308I$	$-3.69772 + 1.50417I$	0
$b = -0.376088 + 0.847274I$		
$u = -0.277223 + 1.095000I$		
$a = -1.266940 - 0.089463I$	$-6.51741 - 2.25945I$	0
$b = -0.657102 + 0.996844I$		
$u = -0.277223 - 1.095000I$		
$a = -1.266940 + 0.089463I$	$-6.51741 + 2.25945I$	0
$b = -0.657102 - 0.996844I$		
$u = -0.464801 + 0.730573I$		
$a = 1.82903 - 1.34189I$	$-7.01390 + 6.25687I$	0
$b = -0.130016 - 1.106320I$		
$u = -0.464801 - 0.730573I$		
$a = 1.82903 + 1.34189I$	$-7.01390 - 6.25687I$	0
$b = -0.130016 + 1.106320I$		
$u = -0.223093 + 1.116750I$		
$a = -0.554263 - 0.411086I$	$-3.61376 - 6.53097I$	0
$b = -1.328580 - 0.018051I$		
$u = -0.223093 - 1.116750I$		
$a = -0.554263 + 0.411086I$	$-3.61376 + 6.53097I$	0
$b = -1.328580 + 0.018051I$		
$u = -0.157681 + 1.132260I$		
$a = -0.442803 - 0.705338I$	$-5.15589 + 2.04118I$	0
$b = -0.833943 - 0.288319I$		
$u = -0.157681 - 1.132260I$		
$a = -0.442803 + 0.705338I$	$-5.15589 - 2.04118I$	0
$b = -0.833943 + 0.288319I$		
$u = -0.342353 + 1.110630I$		
$a = -0.414558 - 0.051773I$	$-5.33499 - 3.86310I$	0
$b = -0.685358 + 0.403556I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.342353 - 1.110630I$	$-5.33499 + 3.86310I$	0
$a = -0.414558 + 0.051773I$		
$b = -0.685358 - 0.403556I$		
$u = -0.220364 + 1.142150I$	$-0.25364 - 1.94629I$	0
$a = 0.586780 + 0.498797I$		
$b = 1.211050 + 0.255080I$		
$u = -0.220364 - 1.142150I$	$-0.25364 + 1.94629I$	0
$a = 0.586780 - 0.498797I$		
$b = 1.211050 - 0.255080I$		
$u = 0.011102 + 1.168060I$	$-7.14480 - 4.85538I$	0
$a = -1.81662 - 0.57133I$		
$b = -0.590866 - 0.686481I$		
$u = 0.011102 - 1.168060I$	$-7.14480 + 4.85538I$	0
$a = -1.81662 + 0.57133I$		
$b = -0.590866 + 0.686481I$		
$u = 0.023141 + 1.180660I$	$-10.60990 + 3.42667I$	0
$a = 0.589991 - 0.360111I$		
$b = 0.81303 + 1.59511I$		
$u = 0.023141 - 1.180660I$	$-10.60990 - 3.42667I$	0
$a = 0.589991 + 0.360111I$		
$b = 0.81303 - 1.59511I$		
$u = 0.022790 + 1.186940I$	$-2.38157 - 0.70111I$	0
$a = 1.287750 + 0.451193I$		
$b = 0.748027 + 0.595783I$		
$u = 0.022790 - 1.186940I$	$-2.38157 + 0.70111I$	0
$a = 1.287750 - 0.451193I$		
$b = 0.748027 - 0.595783I$		
$u = 0.517442 + 0.619554I$	$-4.59461 - 0.62986I$	0
$a = -0.16912 - 1.85951I$		
$b = -0.026688 - 1.051580I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.517442 - 0.619554I$		
$a = -0.16912 + 1.85951I$	$-4.59461 + 0.62986I$	0
$b = -0.026688 + 1.051580I$		
$u = 0.236059 + 0.770587I$		
$a = 3.37427 - 1.48040I$	$-5.31765 + 5.61402I$	0
$b = 0.053774 + 0.746655I$		
$u = 0.236059 - 0.770587I$		
$a = 3.37427 + 1.48040I$	$-5.31765 - 5.61402I$	0
$b = 0.053774 - 0.746655I$		
$u = -0.049615 + 1.202690I$		
$a = 1.05417 - 1.15879I$	$-12.49350 + 1.20983I$	0
$b = 0.525700 + 1.129350I$		
$u = -0.049615 - 1.202690I$		
$a = 1.05417 + 1.15879I$	$-12.49350 - 1.20983I$	0
$b = 0.525700 - 1.129350I$		
$u = 0.584037 + 0.541159I$		
$a = 0.207858 + 0.476487I$	$-0.147746 + 1.239980I$	0
$b = 0.126923 + 0.752522I$		
$u = 0.584037 - 0.541159I$		
$a = 0.207858 - 0.476487I$	$-0.147746 - 1.239980I$	0
$b = 0.126923 - 0.752522I$		
$u = 0.422029 + 0.674736I$		
$a = -0.208595 + 0.256715I$	$-0.150324 + 1.191570I$	0
$b = -0.019292 + 0.489149I$		
$u = 0.422029 - 0.674736I$		
$a = -0.208595 - 0.256715I$	$-0.150324 - 1.191570I$	0
$b = -0.019292 - 0.489149I$		
$u = -0.005809 + 1.209250I$		
$a = -0.775376 + 0.595738I$	$-7.68026 + 2.12334I$	0
$b = -0.67186 - 1.30048I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.005809 - 1.209250I$		
$a = -0.775376 - 0.595738I$	$-7.68026 - 2.12334I$	0
$b = -0.67186 + 1.30048I$		
$u = -0.780610 + 0.123255I$		
$a = -0.705884 - 0.912679I$	$-4.51635 + 8.61713I$	0
$b = -0.490970 - 1.233500I$		
$u = -0.780610 - 0.123255I$		
$a = -0.705884 + 0.912679I$	$-4.51635 - 8.61713I$	0
$b = -0.490970 + 1.233500I$		
$u = 0.889337 + 0.826648I$		
$a = -0.921696 - 0.254962I$	$-0.68326 + 4.13158I$	0
$b = -0.261736 - 0.935220I$		
$u = 0.889337 - 0.826648I$		
$a = -0.921696 + 0.254962I$	$-0.68326 - 4.13158I$	0
$b = -0.261736 + 0.935220I$		
$u = -0.551982 + 0.557205I$		
$a = -1.09061 + 1.48623I$	$-1.98667 + 2.38452I$	0
$b = 0.114194 + 1.055160I$		
$u = -0.551982 - 0.557205I$		
$a = -1.09061 - 1.48623I$	$-1.98667 - 2.38452I$	0
$b = 0.114194 - 1.055160I$		
$u = -0.536840 + 1.099030I$		
$a = -0.0499611 + 0.0855238I$	$-5.18855 - 3.89854I$	0
$b = -0.153416 + 0.527398I$		
$u = -0.536840 - 1.099030I$		
$a = -0.0499611 - 0.0855238I$	$-5.18855 + 3.89854I$	0
$b = -0.153416 - 0.527398I$		
$u = -0.026662 + 1.226840I$		
$a = -1.031000 - 0.148899I$	$-5.21433 + 4.11104I$	0
$b = -1.104570 - 0.731839I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.026662 - 1.226840I$		
$a = -1.031000 + 0.148899I$	$-5.21433 - 4.11104I$	0
$b = -1.104570 + 0.731839I$		
$u = -0.740949 + 0.210292I$		
$a = 0.779348 + 1.100260I$	$-0.53238 + 4.13880I$	0
$b = 0.497411 + 1.187600I$		
$u = -0.740949 - 0.210292I$		
$a = 0.779348 - 1.100260I$	$-0.53238 - 4.13880I$	0
$b = 0.497411 - 1.187600I$		
$u = 0.088278 + 1.227140I$		
$a = -0.313874 + 0.509264I$	$-9.64732 + 0.27043I$	0
$b = -0.29913 - 1.62071I$		
$u = 0.088278 - 1.227140I$		
$a = -0.313874 - 0.509264I$	$-9.64732 - 0.27043I$	0
$b = -0.29913 + 1.62071I$		
$u = -0.718372 + 0.130287I$		
$a = 0.757620 + 0.576115I$	$-5.57819 + 0.95362I$	0
$b = 0.705582 + 0.317866I$		
$u = -0.718372 - 0.130287I$		
$a = 0.757620 - 0.576115I$	$-5.57819 - 0.95362I$	0
$b = 0.705582 - 0.317866I$		
$u = 0.694922 + 0.180838I$		
$a = -1.76585 - 1.29723I$	$0.93187 + 2.46526I$	0
$b = -0.393984 - 0.079643I$		
$u = 0.694922 - 0.180838I$		
$a = -1.76585 + 1.29723I$	$0.93187 - 2.46526I$	0
$b = -0.393984 + 0.079643I$		
$u = -0.338018 + 1.238260I$		
$a = 0.097805 + 0.281128I$	$-9.70476 - 2.81066I$	0
$b = 0.653616 + 0.080122I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.338018 - 1.238260I$		
$a = 0.097805 - 0.281128I$	$-9.70476 + 2.81066I$	0
$b = 0.653616 - 0.080122I$		
$u = 0.684993 + 0.202292I$		
$a = 0.573798 - 0.249534I$	$0.03770 + 1.55930I$	0
$b = 0.337461 + 0.567327I$		
$u = 0.684993 - 0.202292I$		
$a = 0.573798 + 0.249534I$	$0.03770 - 1.55930I$	0
$b = 0.337461 - 0.567327I$		
$u = 0.075513 + 1.297180I$		
$a = 0.352206 - 0.683539I$	$-6.12604 + 2.87334I$	0
$b = 0.319398 + 1.358910I$		
$u = 0.075513 - 1.297180I$		
$a = 0.352206 + 0.683539I$	$-6.12604 - 2.87334I$	0
$b = 0.319398 - 1.358910I$		
$u = -0.383926 + 1.242470I$		
$a = -1.58358 - 0.48738I$	$-7.94194 - 3.63600I$	0
$b = -0.622129 + 1.263270I$		
$u = -0.383926 - 1.242470I$		
$a = -1.58358 + 0.48738I$	$-7.94194 + 3.63600I$	0
$b = -0.622129 - 1.263270I$		
$u = 0.402982 + 1.236750I$		
$a = 0.945176 - 0.790667I$	$-4.26480 + 5.68885I$	0
$b = 0.278268 + 1.025640I$		
$u = 0.402982 - 1.236750I$		
$a = 0.945176 + 0.790667I$	$-4.26480 - 5.68885I$	0
$b = 0.278268 - 1.025640I$		
$u = -0.697140$		
$a = -0.683406$	-2.09215	0
$b = -0.509534$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.126950 + 0.673716I$		
$a = 0.566957 - 0.619186I$	$-3.58274 - 2.29086I$	0
$b = -0.016370 - 1.065140I$		
$u = -1.126950 - 0.673716I$		
$a = 0.566957 + 0.619186I$	$-3.58274 + 2.29086I$	0
$b = -0.016370 + 1.065140I$		
$u = -0.397256 + 1.257510I$		
$a = 1.37131 + 0.49851I$	$-3.94419 - 8.42195I$	0
$b = 0.60803 - 1.35519I$		
$u = -0.397256 - 1.257510I$		
$a = 1.37131 - 0.49851I$	$-3.94419 + 8.42195I$	0
$b = 0.60803 + 1.35519I$		
$u = -0.413412 + 1.260990I$		
$a = -1.307750 - 0.524959I$	$-8.0994 - 13.0437I$	0
$b = -0.58013 + 1.40879I$		
$u = -0.413412 - 1.260990I$		
$a = -1.307750 + 0.524959I$	$-8.0994 + 13.0437I$	0
$b = -0.58013 - 1.40879I$		
$u = 1.336700 + 0.058716I$		
$a = 0.944357 - 0.873808I$	$-10.0374 - 12.6004I$	0
$b = 0.486507 - 1.325130I$		
$u = 1.336700 - 0.058716I$		
$a = 0.944357 + 0.873808I$	$-10.0374 + 12.6004I$	0
$b = 0.486507 + 1.325130I$		
$u = -0.603853 + 0.263884I$		
$a = -0.802637 - 0.308458I$	$-4.74200 - 3.35284I$	0
$b = -0.405901 + 1.036810I$		
$u = -0.603853 - 0.263884I$		
$a = -0.802637 + 0.308458I$	$-4.74200 + 3.35284I$	0
$b = -0.405901 - 1.036810I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.020947 + 1.371670I$	$-9.67693 + 6.00190I$	0
$a = -0.233442 + 0.731342I$		
$b = -0.376381 - 1.258700I$		
$u = -0.020947 - 1.371670I$	$-9.67693 - 6.00190I$	0
$a = -0.233442 - 0.731342I$		
$b = -0.376381 + 1.258700I$		
$u = -0.504923 + 1.297790I$	$-7.97110 - 6.61693I$	0
$a = 0.0816543 - 0.0797088I$		
$b = -0.273500 - 0.474278I$		
$u = -0.504923 - 1.297790I$	$-7.97110 + 6.61693I$	0
$a = 0.0816543 + 0.0797088I$		
$b = -0.273500 + 0.474278I$		
$u = 1.283560 + 0.549496I$	$-9.38239 + 1.82696I$	0
$a = 1.07012 - 1.23907I$		
$b = 0.61326 - 1.34358I$		
$u = 1.283560 - 0.549496I$	$-9.38239 - 1.82696I$	0
$a = 1.07012 + 1.23907I$		
$b = 0.61326 + 1.34358I$		
$u = -0.464924 + 1.330000I$	$-14.5302 - 8.7392I$	0
$a = 1.136870 + 0.564568I$		
$b = 0.314220 - 1.378770I$		
$u = -0.464924 - 1.330000I$	$-14.5302 + 8.7392I$	0
$a = 1.136870 - 0.564568I$		
$b = 0.314220 + 1.378770I$		
$u = -0.64740 + 1.27955I$	$-13.35040 - 1.75878I$	0
$a = -1.048540 - 0.223562I$		
$b = -0.066452 + 1.225290I$		
$u = -0.64740 - 1.27955I$	$-13.35040 + 1.75878I$	0
$a = -1.048540 + 0.223562I$		
$b = -0.066452 - 1.225290I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.32457 + 1.39796I$		
$a = 1.04377 + 1.00993I$	$-12.9233 - 7.0405I$	0
$b = 0.448353 - 1.188110I$		
$u = -0.32457 - 1.39796I$		
$a = 1.04377 - 1.00993I$	$-12.9233 + 7.0405I$	0
$b = 0.448353 + 1.188110I$		
$u = -0.41369 + 1.37876I$		
$a = -1.072420 - 0.722761I$	$-9.76629 - 7.56388I$	0
$b = -0.375376 + 1.258440I$		
$u = -0.41369 - 1.37876I$		
$a = -1.072420 + 0.722761I$	$-9.76629 + 7.56388I$	0
$b = -0.375376 - 1.258440I$		
$u = -0.491824 + 0.244071I$		
$a = -1.51385 - 0.82558I$	$-1.17186 + 3.67564I$	0
$b = -0.856769 + 0.152674I$		
$u = -0.491824 - 0.244071I$		
$a = -1.51385 + 0.82558I$	$-1.17186 - 3.67564I$	0
$b = -0.856769 - 0.152674I$		
$u = -0.431984 + 0.305923I$		
$a = 1.92708 + 1.10809I$	$2.25352 - 0.69683I$	$7.44590 + 0.I$
$b = 0.792100 - 0.317195I$		
$u = -0.431984 - 0.305923I$		
$a = 1.92708 - 1.10809I$	$2.25352 + 0.69683I$	$7.44590 + 0.I$
$b = 0.792100 + 0.317195I$		
$u = -0.396941 + 0.336276I$		
$a = -1.52035 - 1.99706I$	$-2.17631 - 5.57718I$	$0. + 8.62109I$
$b = -0.744801 + 0.481588I$		
$u = -0.396941 - 0.336276I$		
$a = -1.52035 + 1.99706I$	$-2.17631 + 5.57718I$	$0. - 8.62109I$
$b = -0.744801 - 0.481588I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.48151 + 1.40006I$		
$a = 0.991155 - 0.517715I$	$-10.6351 + 12.9244I$	0
$b = 1.217320 - 0.157107I$		
$u = 0.48151 - 1.40006I$		
$a = 0.991155 + 0.517715I$	$-10.6351 - 12.9244I$	0
$b = 1.217320 + 0.157107I$		
$u = -1.45426 + 0.30736I$		
$a = -0.0456150 + 0.0626014I$	$-3.34812 - 2.67835I$	0
$b = -0.039145 + 1.001670I$		
$u = -1.45426 - 0.30736I$		
$a = -0.0456150 - 0.0626014I$	$-3.34812 + 2.67835I$	0
$b = -0.039145 - 1.001670I$		
$u = -0.387947 + 0.326373I$		
$a = -0.97702 - 2.12459I$	$-5.08267 + 0.03805I$	0
$b = -0.411692 - 1.107850I$		
$u = -0.387947 - 0.326373I$		
$a = -0.97702 + 2.12459I$	$-5.08267 - 0.03805I$	0
$b = -0.411692 + 1.107850I$		
$u = 1.50842 + 0.15989I$		
$a = -0.802603 + 1.034310I$	$-4.57413 - 6.15030I$	0
$b = -0.44633 + 1.40123I$		
$u = 1.50842 - 0.15989I$		
$a = -0.802603 - 1.034310I$	$-4.57413 + 6.15030I$	0
$b = -0.44633 - 1.40123I$		
$u = 0.28443 + 1.51858I$		
$a = 0.140763 - 0.107784I$	$-16.4901 + 6.9537I$	0
$b = 0.36207 - 1.56249I$		
$u = 0.28443 - 1.51858I$		
$a = 0.140763 + 0.107784I$	$-16.4901 - 6.9537I$	0
$b = 0.36207 + 1.56249I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.46256 + 1.48899I$	$-5.03868 + 6.92488I$	0
$a = -1.171880 + 0.440110I$		
$b = -1.306040 + 0.156612I$		
$u = 0.46256 - 1.48899I$	$-5.03868 - 6.92488I$	0
$a = -1.171880 - 0.440110I$		
$b = -1.306040 - 0.156612I$		
$u = 0.61845 + 1.43769I$	$-14.4541 + 19.4053I$	0
$a = 1.51618 - 0.17264I$		
$b = 0.62683 + 1.36009I$		
$u = 0.61845 - 1.43769I$	$-14.4541 - 19.4053I$	0
$a = 1.51618 + 0.17264I$		
$b = 0.62683 - 1.36009I$		
$u = -0.369591 + 0.227298I$	$-7.73847 - 3.93611I$	$-3.85928 + 2.86538I$
$a = 1.65932 + 1.13012I$		
$b = 0.582680 - 1.110040I$		
$u = -0.369591 - 0.227298I$	$-7.73847 + 3.93611I$	$-3.85928 - 2.86538I$
$a = 1.65932 - 1.13012I$		
$b = 0.582680 + 1.110040I$		
$u = 0.70516 + 1.40284I$	$-9.30790 - 1.06886I$	0
$a = 1.25706 - 0.84733I$		
$b = 1.157540 - 0.475298I$		
$u = 0.70516 - 1.40284I$	$-9.30790 + 1.06886I$	0
$a = 1.25706 + 0.84733I$		
$b = 1.157540 + 0.475298I$		
$u = 0.65088 + 1.48622I$	$-9.0435 + 13.6226I$	0
$a = -1.44384 + 0.02456I$		
$b = -0.62453 - 1.38658I$		
$u = 0.65088 - 1.48622I$	$-9.0435 - 13.6226I$	0
$a = -1.44384 - 0.02456I$		
$b = -0.62453 + 1.38658I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.44507 + 1.57390I$		
$a = -0.666378 - 0.652113I$	$-9.92471 - 9.20125I$	0
$b = -0.282230 + 1.089450I$		
$u = -0.44507 - 1.57390I$		
$a = -0.666378 + 0.652113I$	$-9.92471 + 9.20125I$	0
$b = -0.282230 - 1.089450I$		
$u = -0.64408 + 1.50566I$		
$a = 0.760212 + 0.372833I$	$-7.51354 - 4.93051I$	0
$b = 0.166863 - 1.139230I$		
$u = -0.64408 - 1.50566I$		
$a = 0.760212 - 0.372833I$	$-7.51354 + 4.93051I$	0
$b = 0.166863 + 1.139230I$		
$u = 1.67334$		
$a = -2.44555$	0.908689	0
$b = -1.51359$		
$u = 0.31458 + 1.66622I$		
$a = -0.115652 + 0.232418I$	$-11.38410 + 0.88058I$	0
$b = -0.28548 + 1.54537I$		
$u = 0.31458 - 1.66622I$		
$a = -0.115652 - 0.232418I$	$-11.38410 - 0.88058I$	0
$b = -0.28548 - 1.54537I$		
$u = 0.83224 + 1.48979I$		
$a = 1.62547 + 0.30382I$	$-12.27440 + 6.24270I$	0
$b = 0.73549 + 1.41846I$		
$u = 0.83224 - 1.48979I$		
$a = 1.62547 - 0.30382I$	$-12.27440 - 6.24270I$	0
$b = 0.73549 - 1.41846I$		
$u = 0.47177 + 1.65571I$		
$a = 0.036914 - 0.181850I$	$-15.6887 - 5.6373I$	0
$b = 0.28968 - 1.42137I$		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u =$	$0.47177 - 1.65571I$		
$a =$	$0.036914 + 0.181850I$	$-15.6887 + 5.6373I$	0
$b =$	$0.28968 + 1.42137I$		

II.

$$I_2^u = \langle -8.47 \times 10^{33}u^{45} - 3.70 \times 10^{34}u^{44} + \dots + 1.20 \times 10^{33}b + 4.21 \times 10^{34}, \ 5.76 \times 10^{34}u^{45} + 1.93 \times 10^{35}u^{44} + \dots + 1.20 \times 10^{33}a + 1.45 \times 10^{34}, \ u^{46} + 3u^{45} + \dots + 6u - 1 \rangle$$

(i) **Arc colorings**

$$a_2 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -48.1220u^{45} - 161.027u^{44} + \dots + 269.890u - 12.0825 \\ 7.07458u^{45} + 30.8741u^{44} + \dots + 174.979u - 35.2036 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -55.1965u^{45} - 191.901u^{44} + \dots + 94.9112u + 23.1211 \\ 7.07458u^{45} + 30.8741u^{44} + \dots + 174.979u - 35.2036 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 17.8062u^{45} - 7.62026u^{44} + \dots - 1498.06u + 278.877 \\ -14.4006u^{45} - 46.3463u^{44} + \dots - 73.7044u + 27.9560 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 1.49900u^{45} - 44.8909u^{44} + \dots - 1173.54u + 227.493 \\ -23.6439u^{45} - 64.9481u^{44} + \dots + 164.606u - 11.7774 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -204.953u^{45} - 638.854u^{44} + \dots + 1845.90u - 238.051 \\ -37.4147u^{45} - 87.5691u^{44} + \dots + 851.882u - 142.972 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -5.53221u^{45} + 23.2553u^{44} + \dots + 578.202u - 116.046 \\ 14.5588u^{45} + 75.0043u^{44} + \dots + 302.558u - 71.1940 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 100.135u^{45} + 264.308u^{44} + \dots - 1583.23u + 271.409 \\ 2.69527u^{45} - 42.9712u^{44} + \dots - 802.705u + 163.900 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 348.927u^{45} + 1171.16u^{44} + \dots - 165.318u - 166.841 \\ 87.5862u^{45} + 262.982u^{44} + \dots - 640.454u + 70.1859 \end{pmatrix}$$

(ii) **Obstruction class = 1**

(iii) **Cusp Shapes** = $131.081u^{45} + 402.148u^{44} + \dots - 1446.57u + 184.859$

(iv) **u-Polynomials at the component**

Crossings	u-Polynomials at each crossing
c_1	$u^{46} - 6u^{45} + \cdots - 345u + 73$
c_2	$u^{46} - 3u^{45} + \cdots - 6u - 1$
c_3	$u^{46} - 23u^{44} + \cdots + 15u + 9$
c_4	$u^{46} - 2u^{45} + \cdots + 2u - 1$
c_5	$u^{46} - 12u^{45} + \cdots - 12u + 1$
c_6	$u^{46} + 3u^{45} + \cdots + 6u - 1$
c_7	$u^{46} - 2u^{45} + \cdots + 2u - 1$
c_8	$u^{46} - 23u^{44} + \cdots - 15u + 9$
c_9	$u^{46} + 6u^{45} + \cdots + 62u + 7$
c_{10}	$u^{46} - 4u^{44} + \cdots + 33u - 9$
c_{11}	$u^{46} + 2u^{45} + \cdots - 2u - 1$
c_{12}	$u^{46} - 6u^{45} + \cdots - 62u + 7$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{46} - 24y^{45} + \cdots - 12883y + 5329$
c_2, c_6	$y^{46} + 21y^{45} + \cdots + 28y + 1$
c_3, c_8	$y^{46} - 46y^{45} + \cdots - 2043y + 81$
c_4	$y^{46} + 8y^{45} + \cdots - 68y + 1$
c_5	$y^{46} - 14y^{45} + \cdots + 1064y + 1$
c_7, c_{11}	$y^{46} + 22y^{45} + \cdots + 30y + 1$
c_9, c_{12}	$y^{46} + 34y^{45} + \cdots - 78y + 49$
c_{10}	$y^{46} - 8y^{45} + \cdots - 315y + 81$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.877897 + 0.554676I$ $a = -0.521000 - 0.087318I$ $b = -0.124352 + 0.812099I$	$-0.33376 + 1.93837I$	$-7.58118 - 4.65231I$
$u = 0.877897 - 0.554676I$ $a = -0.521000 + 0.087318I$ $b = -0.124352 - 0.812099I$	$-0.33376 - 1.93837I$	$-7.58118 + 4.65231I$
$u = 1.04295$ $a = -2.99015$ $b = -1.36593$	3.00070	-79.7240
$u = 0.314538 + 0.876488I$ $a = -0.661253 + 0.701113I$ $b = -0.686004 + 0.198355I$	$0.86731 + 1.36984I$	$4.16726 - 2.20924I$
$u = 0.314538 - 0.876488I$ $a = -0.661253 - 0.701113I$ $b = -0.686004 - 0.198355I$	$0.86731 - 1.36984I$	$4.16726 + 2.20924I$
$u = 0.446542 + 0.983388I$ $a = 2.05662 - 0.08252I$ $b = 0.248104 + 0.782385I$	$-4.15338 + 3.97411I$	$-4.27708 - 3.90046I$
$u = 0.446542 - 0.983388I$ $a = 2.05662 + 0.08252I$ $b = 0.248104 - 0.782385I$	$-4.15338 - 3.97411I$	$-4.27708 + 3.90046I$
$u = -0.162379 + 0.896640I$ $a = -0.583815 + 0.146614I$ $b = -0.783972 + 1.044000I$	$-8.79531 - 4.00405I$	$-12.01832 + 2.80318I$
$u = -0.162379 - 0.896640I$ $a = -0.583815 - 0.146614I$ $b = -0.783972 - 1.044000I$	$-8.79531 + 4.00405I$	$-12.01832 - 2.80318I$
$u = -0.035254 + 1.164750I$ $a = -0.429805 + 0.629812I$ $b = -0.65976 - 1.40509I$	$-10.03850 + 3.13430I$	$-6.98568 + 0.I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.035254 - 1.164750I$		
$a = -0.429805 - 0.629812I$	$-10.03850 - 3.13430I$	$-6.98568 + 0.I$
$b = -0.65976 + 1.40509I$		
$u = -1.093280 + 0.411654I$		
$a = 0.754734 - 0.257030I$	$-4.05150 - 4.02769I$	0
$b = 0.343340 - 1.083710I$		
$u = -1.093280 - 0.411654I$		
$a = 0.754734 + 0.257030I$	$-4.05150 + 4.02769I$	0
$b = 0.343340 + 1.083710I$		
$u = 0.768041 + 0.882116I$		
$a = -1.41344 - 0.26949I$	$-1.30679 + 3.83387I$	0
$b = -0.258376 - 0.988006I$		
$u = 0.768041 - 0.882116I$		
$a = -1.41344 + 0.26949I$	$-1.30679 - 3.83387I$	0
$b = -0.258376 + 0.988006I$		
$u = 0.251587 + 0.790476I$		
$a = -0.06808 - 2.67707I$	$-3.21132 - 0.99195I$	$0.366042 - 0.481747I$
$b = 0.078390 - 0.606022I$		
$u = 0.251587 - 0.790476I$		
$a = -0.06808 + 2.67707I$	$-3.21132 + 0.99195I$	$0.366042 + 0.481747I$
$b = 0.078390 + 0.606022I$		
$u = 0.422157 + 0.658850I$		
$a = 0.231809 - 1.133400I$	$-5.78361 + 0.48983I$	$-10.39456 - 2.62224I$
$b = 0.526101 - 1.119800I$		
$u = 0.422157 - 0.658850I$		
$a = 0.231809 + 1.133400I$	$-5.78361 - 0.48983I$	$-10.39456 + 2.62224I$
$b = 0.526101 + 1.119800I$		
$u = 0.105120 + 0.769808I$		
$a = 0.547161 - 1.016230I$	$-3.01678 + 5.18219I$	$-5.14806 - 4.16446I$
$b = 0.918050 + 0.327893I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.105120 - 0.769808I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.547161 + 1.016230I$	$-3.01678 - 5.18219I$	$-5.14806 + 4.16446I$
$b = 0.918050 - 0.327893I$		
$u = -0.518149 + 1.122750I$		
$a = 0.578181 - 0.007806I$	$-5.02326 - 4.40440I$	0
$b = 0.370495 - 0.625013I$		
$u = -0.518149 - 1.122750I$		
$a = 0.578181 + 0.007806I$	$-5.02326 + 4.40440I$	0
$b = 0.370495 + 0.625013I$		
$u = -0.760439 + 0.978528I$		
$a = -1.15238 - 1.36952I$	$-9.45943 - 0.22442I$	0
$b = -0.728445 - 0.862083I$		
$u = -0.760439 - 0.978528I$		
$a = -1.15238 + 1.36952I$	$-9.45943 + 0.22442I$	0
$b = -0.728445 + 0.862083I$		
$u = 0.083792 + 1.267340I$		
$a = 0.819679 - 0.472468I$	$-8.80393 + 1.68616I$	0
$b = 0.59725 + 1.41979I$		
$u = 0.083792 - 1.267340I$		
$a = 0.819679 + 0.472468I$	$-8.80393 - 1.68616I$	0
$b = 0.59725 - 1.41979I$		
$u = -0.175520 + 1.260250I$		
$a = 0.881425 - 0.062335I$	$-5.51476 - 5.21090I$	0
$b = 1.147650 - 0.438881I$		
$u = -0.175520 - 1.260250I$		
$a = 0.881425 + 0.062335I$	$-5.51476 + 5.21090I$	0
$b = 1.147650 + 0.438881I$		
$u = -0.421706 + 1.280960I$		
$a = -0.871703 + 0.210052I$	$-8.51840 - 7.09828I$	0
$b = 0.015574 + 0.641499I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.421706 - 1.280960I$		
$a = -0.871703 - 0.210052I$	$-8.51840 + 7.09828I$	0
$b = 0.015574 - 0.641499I$		
$u = -1.307410 + 0.435247I$		
$a = -0.0975569 + 0.0852232I$	$-2.55623 - 2.10745I$	0
$b = 0.116605 + 0.793602I$		
$u = -1.307410 - 0.435247I$		
$a = -0.0975569 - 0.0852232I$	$-2.55623 + 2.10745I$	0
$b = 0.116605 - 0.793602I$		
$u = 0.252828 + 0.544998I$		
$a = -2.64895 + 1.40976I$	$0.17776 + 1.66609I$	$1.70973 - 2.77092I$
$b = -0.165786 + 0.641403I$		
$u = 0.252828 - 0.544998I$		
$a = -2.64895 - 1.40976I$	$0.17776 - 1.66609I$	$1.70973 + 2.77092I$
$b = -0.165786 - 0.641403I$		
$u = -0.002350 + 0.568729I$		
$a = 4.34887 - 2.92072I$	$-4.92288 + 5.09338I$	$-1.32025 + 0.63790I$
$b = 0.219183 - 0.662061I$		
$u = -0.002350 - 0.568729I$		
$a = 4.34887 + 2.92072I$	$-4.92288 - 5.09338I$	$-1.32025 - 0.63790I$
$b = 0.219183 + 0.662061I$		
$u = 0.492802 + 0.252297I$		
$a = -1.58411 - 2.04054I$	$-1.86622 + 4.26035I$	$-3.51889 - 6.01969I$
$b = -0.387107 - 1.131120I$		
$u = 0.492802 - 0.252297I$		
$a = -1.58411 + 2.04054I$	$-1.86622 - 4.26035I$	$-3.51889 + 6.01969I$
$b = -0.387107 + 1.131120I$		
$u = 0.117592 + 0.517197I$		
$a = 3.59196 + 1.71289I$	$-6.70213 + 7.95792I$	$-6.11007 - 7.04497I$
$b = 0.400037 + 1.081980I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.117592 - 0.517197I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 3.59196 - 1.71289I$	$-6.70213 - 7.95792I$	$-6.11007 + 7.04497I$
$b = 0.400037 - 1.081980I$		
$u = -0.29644 + 1.45057I$		
$a = 0.574281 + 0.815358I$	$-11.2995 - 8.6994I$	0
$b = 0.313485 - 1.220710I$		
$u = -0.29644 - 1.45057I$		
$a = 0.574281 - 0.815358I$	$-11.2995 + 8.6994I$	0
$b = 0.313485 + 1.220710I$		
$u = -0.58639 + 1.36575I$		
$a = -1.54293 - 0.34688I$	$-11.20340 - 5.66692I$	0
$b = -0.524851 + 1.236200I$		
$u = -0.58639 - 1.36575I$		
$a = -1.54293 + 0.34688I$	$-11.20340 + 5.66692I$	0
$b = -0.524851 - 1.236200I$		
$u = -1.59010$		
$a = 2.37077$	1.03050	0
$b = 1.41470$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{46} - 6u^{45} + \dots - 345u + 73)$ $\cdot (u^{151} - 15u^{150} + \dots - 22057694910u + 1658964361)$
c_2	$(u^{46} - 3u^{45} + \dots - 6u - 1)$ $\cdot (u^{151} + 50u^{149} + \dots - 12000095u - 635671)$
c_3	$(u^{46} - 23u^{44} + \dots + 15u + 9)(u^{151} - u^{150} + \dots + 40642u + 9299)$
c_4	$(u^{46} - 2u^{45} + \dots + 2u - 1)(u^{151} + 3u^{150} + \dots + 191957u - 6301)$
c_5	$(u^{46} - 12u^{45} + \dots - 12u + 1)$ $\cdot (u^{151} - 7u^{150} + \dots + 13056495585u - 1546221241)$
c_6	$(u^{46} + 3u^{45} + \dots + 6u - 1)$ $\cdot (u^{151} + 50u^{149} + \dots - 12000095u - 635671)$
c_7	$(u^{46} - 2u^{45} + \dots + 2u - 1)(u^{151} - 3u^{150} + \dots - 44403u - 18287)$
c_8	$(u^{46} - 23u^{44} + \dots - 15u + 9)(u^{151} - u^{150} + \dots + 40642u + 9299)$
c_9	$(u^{46} + 6u^{45} + \dots + 62u + 7)(u^{151} + 5u^{150} + \dots + 31u + 1)$
c_{10}	$(u^{46} - 4u^{44} + \dots + 33u - 9)$ $\cdot (u^{151} - u^{150} + \dots + 2070354906u - 331170187)$
c_{11}	$(u^{46} + 2u^{45} + \dots - 2u - 1)(u^{151} - 3u^{150} + \dots - 44403u - 18287)$
c_{12}	$(u^{46} - 6u^{45} + \dots - 62u + 7)(u^{151} + 5u^{150} + \dots + 31u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{46} - 24y^{45} + \dots - 12883y + 5329)$ $\cdot (y^{151} - 69y^{150} + \dots + 1.51 \times 10^{20}y - 2.75 \times 10^{18})$
c_2, c_6	$(y^{46} + 21y^{45} + \dots + 28y + 1)$ $\cdot (y^{151} + 100y^{150} + \dots - 2921995709471y - 404077620241)$
c_3, c_8	$(y^{46} - 46y^{45} + \dots - 2043y + 81)$ $\cdot (y^{151} - 139y^{150} + \dots - 4712909788y - 86471401)$
c_4	$(y^{46} + 8y^{45} + \dots - 68y + 1)$ $\cdot (y^{151} - 17y^{150} + \dots + 25879162721y - 39702601)$
c_5	$(y^{46} - 14y^{45} + \dots + 1064y + 1)$ $\cdot (y^{151} - 83y^{150} + \dots + 1.37 \times 10^{19}y - 2.39 \times 10^{18})$
c_7, c_{11}	$(y^{46} + 22y^{45} + \dots + 30y + 1)$ $\cdot (y^{151} + 93y^{150} + \dots - 13900794685y - 334414369)$
c_9, c_{12}	$(y^{46} + 34y^{45} + \dots - 78y + 49)(y^{151} + 117y^{150} + \dots - 69y - 1)$
c_{10}	$(y^{46} - 8y^{45} + \dots - 315y + 81)$ $\cdot (y^{151} - 61y^{150} + \dots + 8.43 \times 10^{18}y - 1.10 \times 10^{17})$