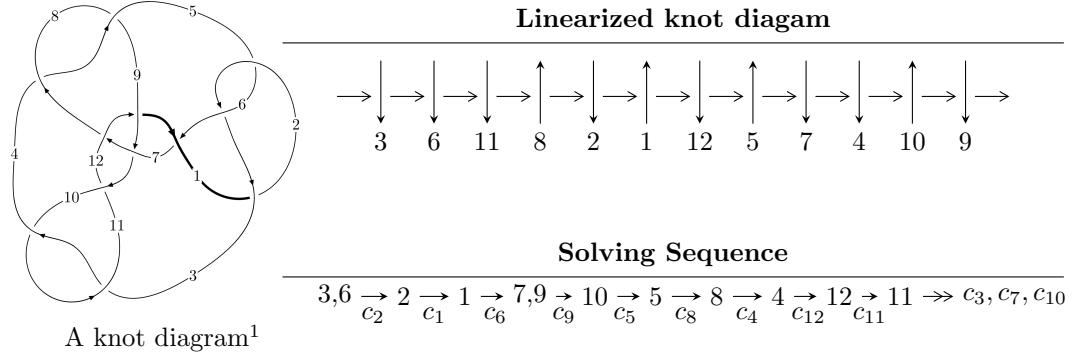


$12a_{0470}$ ($K12a_{0470}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 4.04726 \times 10^{246} u^{151} - 6.41758 \times 10^{246} u^{150} + \dots + 5.27327 \times 10^{246} b + 2.97396 \times 10^{246}, \\ 7.15742 \times 10^{246} u^{151} - 9.25761 \times 10^{246} u^{150} + \dots + 5.27327 \times 10^{246} a - 1.31606 \times 10^{247}, u^{152} - 2u^{151} + \dots + \rangle$$

$$I_2^u = \langle 8u^{28} + 4u^{27} + \dots + b - 8, 5u^{28} + 6u^{27} + \dots + a - 5, u^{29} + u^{28} + \dots - u - 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 181 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.

$$\text{I. } I_1^u = \langle 4.05 \times 10^{246} u^{151} - 6.42 \times 10^{246} u^{150} + \dots + 5.27 \times 10^{246} b + 2.97 \times 10^{246}, 7.16 \times 10^{246} u^{151} - 9.26 \times 10^{246} u^{150} + \dots + 5.27 \times 10^{246} a - 1.32 \times 10^{247}, u^{152} - 2u^{151} + \dots + u - 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u^5 - 2u^3 + u \\ u^5 - u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -1.35730u^{151} + 1.75558u^{150} + \dots - 5.13107u + 2.49572 \\ -0.767505u^{151} + 1.21700u^{150} + \dots - 0.938204u - 0.563969 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -1.24710u^{151} + 2.18343u^{150} + \dots - 5.16086u + 3.31368 \\ -1.61120u^{151} + 2.24775u^{150} + \dots - 0.307596u - 1.05852 \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -1.64848u^{151} + 2.79384u^{150} + \dots - 5.42734u + 2.23244 \\ -1.90549u^{151} + 2.80402u^{150} + \dots - 0.487392u - 1.28317 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -1.00094u^{151} + 3.31075u^{150} + \dots - 4.77710u - 2.74348 \\ 0.190513u^{151} - 1.42765u^{150} + \dots - 2.05798u + 1.60425 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 3.78395u^{151} - 7.66715u^{150} + \dots + 9.27456u - 1.33763 \\ 0.377582u^{151} - 1.13512u^{150} + \dots + 5.43079u - 1.54915 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 7.65369u^{151} - 11.9415u^{150} + \dots - 5.79642u + 3.51479 \\ 0.585467u^{151} - 0.0463453u^{150} + \dots - 0.251655u + 1.47548 \end{pmatrix} \end{aligned}$$

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

(iii) **Cusp Shapes** = $-0.0982650u^{151} - 5.31022u^{150} + \dots + 12.0206u - 0.0299219$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{152} + 76u^{151} + \cdots + 13u + 1$
c_2, c_5	$u^{152} + 2u^{151} + \cdots - u - 1$
c_3, c_{10}	$u^{152} + 33u^{150} + \cdots + 783u + 259$
c_4, c_8	$u^{152} + u^{151} + \cdots + 6u + 1$
c_6	$u^{152} + 6u^{151} + \cdots - 3317745u - 609725$
c_7	$u^{152} - u^{151} + \cdots + 57u - 1$
c_9	$u^{152} - 20u^{151} + \cdots + 21337u - 12353$
c_{11}	$u^{152} - 66u^{151} + \cdots - 1636585u + 67081$
c_{12}	$u^{152} - 14u^{151} + \cdots - 30u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{152} + 4y^{151} + \cdots - 105y + 1$
c_2, c_5	$y^{152} - 76y^{151} + \cdots - 13y + 1$
c_3, c_{10}	$y^{152} + 66y^{151} + \cdots + 1636585y + 67081$
c_4, c_8	$y^{152} - 99y^{151} + \cdots - 18y + 1$
c_6	$y^{152} + 68y^{151} + \cdots - 27842735435875y + 371764575625$
c_7	$y^{152} + y^{151} + \cdots - 129y + 1$
c_9	$y^{152} - 40y^{151} + \cdots - 15266440451y + 152596609$
c_{11}	$y^{152} + 54y^{151} + \cdots + 6314845277y + 4499860561$
c_{12}	$y^{152} - 4y^{151} + \cdots + 152y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.383777 + 0.919433I$		
$a = 1.078470 - 0.262629I$	$1.07545 + 4.53235I$	0
$b = 0.962367 - 0.275916I$		
$u = 0.383777 - 0.919433I$		
$a = 1.078470 + 0.262629I$	$1.07545 - 4.53235I$	0
$b = 0.962367 + 0.275916I$		
$u = -0.944741 + 0.285279I$		
$a = 1.35833 + 1.30200I$	$-3.08140 + 1.12956I$	0
$b = -0.650112 + 0.955026I$		
$u = -0.944741 - 0.285279I$		
$a = 1.35833 - 1.30200I$	$-3.08140 - 1.12956I$	0
$b = -0.650112 - 0.955026I$		
$u = -0.069371 + 0.971211I$		
$a = -0.117881 - 0.389121I$	$-1.18241 - 2.66699I$	0
$b = -0.065256 - 0.129430I$		
$u = -0.069371 - 0.971211I$		
$a = -0.117881 + 0.389121I$	$-1.18241 + 2.66699I$	0
$b = -0.065256 + 0.129430I$		
$u = 0.482267 + 0.836728I$		
$a = 1.079100 - 0.220038I$	$1.73768 - 0.27266I$	0
$b = 1.014560 - 0.374126I$		
$u = 0.482267 - 0.836728I$		
$a = 1.079100 + 0.220038I$	$1.73768 + 0.27266I$	0
$b = 1.014560 + 0.374126I$		
$u = -0.931775 + 0.458661I$		
$a = -0.517037 + 0.052500I$	$1.67907 + 3.50297I$	0
$b = -0.963868 - 0.349871I$		
$u = -0.931775 - 0.458661I$		
$a = -0.517037 - 0.052500I$	$1.67907 - 3.50297I$	0
$b = -0.963868 + 0.349871I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.317637 + 0.901806I$		
$a = -1.042530 - 0.284626I$	$0.494522 - 0.387668I$	0
$b = -0.868882 - 0.244756I$		
$u = -0.317637 - 0.901806I$		
$a = -1.042530 + 0.284626I$	$0.494522 + 0.387668I$	0
$b = -0.868882 + 0.244756I$		
$u = -0.984716 + 0.353336I$		
$a = -0.44854 + 1.50777I$	$0.24721 - 3.77251I$	0
$b = -2.22025 + 0.47865I$		
$u = -0.984716 - 0.353336I$		
$a = -0.44854 - 1.50777I$	$0.24721 + 3.77251I$	0
$b = -2.22025 - 0.47865I$		
$u = 0.674828 + 0.650638I$		
$a = -0.800877 - 0.378374I$	$8.14764 - 3.66069I$	0
$b = -0.262229 - 0.826627I$		
$u = 0.674828 - 0.650638I$		
$a = -0.800877 + 0.378374I$	$8.14764 + 3.66069I$	0
$b = -0.262229 + 0.826627I$		
$u = -0.779228 + 0.724899I$		
$a = -0.668136 + 0.162670I$	$2.90751 - 0.77875I$	0
$b = 0.1014870 - 0.0587958I$		
$u = -0.779228 - 0.724899I$		
$a = -0.668136 - 0.162670I$	$2.90751 + 0.77875I$	0
$b = 0.1014870 + 0.0587958I$		
$u = -0.802715 + 0.700181I$		
$a = 0.528909 - 0.214658I$	$2.83078 + 6.12529I$	0
$b = 0.066369 - 0.571812I$		
$u = -0.802715 - 0.700181I$		
$a = 0.528909 + 0.214658I$	$2.83078 - 6.12529I$	0
$b = 0.066369 + 0.571812I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.931258$		
$a = 0.556220$	-1.56738	0
$b = 0.725666$		
$u = -1.005300 + 0.383584I$		
$a = -0.971898 + 0.294247I$	$1.73788 + 3.49522I$	0
$b = -1.30327 - 0.72079I$		
$u = -1.005300 - 0.383584I$		
$a = -0.971898 - 0.294247I$	$1.73788 - 3.49522I$	0
$b = -1.30327 + 0.72079I$		
$u = 0.778317 + 0.756459I$		
$a = -0.598115 - 0.112367I$	$4.81350 - 11.43230I$	0
$b = -0.174448 - 0.505818I$		
$u = 0.778317 - 0.756459I$		
$a = -0.598115 + 0.112367I$	$4.81350 + 11.43230I$	0
$b = -0.174448 + 0.505818I$		
$u = 0.291795 + 0.863898I$		
$a = -1.83268 + 0.83379I$	$1.9610 + 14.4178I$	0
$b = -1.48448 + 1.13373I$		
$u = 0.291795 - 0.863898I$		
$a = -1.83268 - 0.83379I$	$1.9610 - 14.4178I$	0
$b = -1.48448 - 1.13373I$		
$u = -0.775590 + 0.473858I$		
$a = 0.847989 - 0.837717I$	$0.61723 + 7.01848I$	0
$b = 0.90184 + 1.10640I$		
$u = -0.775590 - 0.473858I$		
$a = 0.847989 + 0.837717I$	$0.61723 - 7.01848I$	0
$b = 0.90184 - 1.10640I$		
$u = 1.038360 + 0.345757I$		
$a = 0.191067 + 0.995519I$	$-1.98195 - 0.69790I$	0
$b = 1.53922 + 0.38333I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.038360 - 0.345757I$		
$a = 0.191067 - 0.995519I$	$-1.98195 + 0.69790I$	0
$b = 1.53922 - 0.38333I$		
$u = 0.906062 + 0.615460I$		
$a = 0.999545 + 0.441678I$	$7.47803 - 1.24652I$	0
$b = -0.059051 - 0.308564I$		
$u = 0.906062 - 0.615460I$		
$a = 0.999545 - 0.441678I$	$7.47803 + 1.24652I$	0
$b = -0.059051 + 0.308564I$		
$u = -0.965412 + 0.541538I$		
$a = -0.001851 - 0.395682I$	$1.74479 + 4.28503I$	0
$b = -0.544932 - 0.587103I$		
$u = -0.965412 - 0.541538I$		
$a = -0.001851 + 0.395682I$	$1.74479 - 4.28503I$	0
$b = -0.544932 + 0.587103I$		
$u = -0.264440 + 0.845180I$		
$a = 1.76638 + 0.91924I$	$-0.19681 - 8.54250I$	0
$b = 1.42141 + 1.17453I$		
$u = -0.264440 - 0.845180I$		
$a = 1.76638 - 0.91924I$	$-0.19681 + 8.54250I$	0
$b = 1.42141 - 1.17453I$		
$u = 1.090970 + 0.273767I$		
$a = -0.239902 + 1.154550I$	$-2.48172 - 0.27312I$	0
$b = 1.187110 + 0.692719I$		
$u = 1.090970 - 0.273767I$		
$a = -0.239902 - 1.154550I$	$-2.48172 + 0.27312I$	0
$b = 1.187110 - 0.692719I$		
$u = -0.538885 + 0.671846I$		
$a = -1.000540 - 0.049819I$	$1.73680 - 2.93232I$	0
$b = -1.043760 - 0.407156I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.538885 - 0.671846I$		
$a = -1.000540 + 0.049819I$	$1.73680 + 2.93232I$	0
$b = -1.043760 + 0.407156I$		
$u = 0.852933 + 0.761343I$		
$a = 0.609064 + 0.330543I$	$4.61641 + 5.79207I$	0
$b = -0.0280414 - 0.0735952I$		
$u = 0.852933 - 0.761343I$		
$a = 0.609064 - 0.330543I$	$4.61641 - 5.79207I$	0
$b = -0.0280414 + 0.0735952I$		
$u = 1.047030 + 0.467738I$		
$a = -0.58666 + 2.67220I$	$0.164504 + 1.182460I$	0
$b = 1.92124 + 1.21869I$		
$u = 1.047030 - 0.467738I$		
$a = -0.58666 - 2.67220I$	$0.164504 - 1.182460I$	0
$b = 1.92124 - 1.21869I$		
$u = -1.030410 + 0.508838I$		
$a = 0.17447 - 1.64458I$	$0.29119 + 7.48074I$	0
$b = 1.94710 - 0.08979I$		
$u = -1.030410 - 0.508838I$		
$a = 0.17447 + 1.64458I$	$0.29119 - 7.48074I$	0
$b = 1.94710 + 0.08979I$		
$u = -0.589867 + 0.610350I$		
$a = -0.700953 - 0.481848I$	$2.84618 + 0.28798I$	0
$b = 0.290361 + 0.120067I$		
$u = -0.589867 - 0.610350I$		
$a = -0.700953 + 0.481848I$	$2.84618 - 0.28798I$	0
$b = 0.290361 - 0.120067I$		
$u = -1.068240 + 0.431591I$		
$a = -0.184092 - 0.729158I$	$2.17032 + 1.56453I$	0
$b = -0.782026 - 0.803453I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.068240 - 0.431591I$		
$a = -0.184092 + 0.729158I$	$2.17032 - 1.56453I$	0
$b = -0.782026 + 0.803453I$		
$u = 1.029510 + 0.545055I$		
$a = 0.268685 - 0.493310I$	$2.59941 - 0.54644I$	0
$b = 0.778055 - 0.624997I$		
$u = 1.029510 - 0.545055I$		
$a = 0.268685 + 0.493310I$	$2.59941 + 0.54644I$	0
$b = 0.778055 + 0.624997I$		
$u = -1.094080 + 0.400769I$		
$a = -1.00807 - 1.05475I$	$-1.71479 - 2.37202I$	0
$b = 2.02800 - 0.86472I$		
$u = -1.094080 - 0.400769I$		
$a = -1.00807 + 1.05475I$	$-1.71479 + 2.37202I$	0
$b = 2.02800 + 0.86472I$		
$u = -1.133100 + 0.281064I$		
$a = 0.30345 - 1.45730I$	$1.97754 - 2.59355I$	0
$b = 1.85611 + 0.47793I$		
$u = -1.133100 - 0.281064I$		
$a = 0.30345 + 1.45730I$	$1.97754 + 2.59355I$	0
$b = 1.85611 - 0.47793I$		
$u = 0.720540 + 0.411747I$		
$a = -0.767789 - 0.319195I$	$-1.26910 - 2.31076I$	0
$b = -0.330475 + 1.225820I$		
$u = 0.720540 - 0.411747I$		
$a = -0.767789 + 0.319195I$	$-1.26910 + 2.31076I$	0
$b = -0.330475 - 1.225820I$		
$u = -0.814938 + 0.134931I$		
$a = -0.083292 - 0.966694I$	$0.36906 + 4.70085I$	0
$b = -0.96051 - 1.15930I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.814938 - 0.134931I$		
$a = -0.083292 + 0.966694I$	$0.36906 - 4.70085I$	0
$b = -0.96051 + 1.15930I$		
$u = 0.289257 + 0.761883I$		
$a = -1.97581 + 1.16549I$	$6.30909 + 5.59657I$	$0. - 5.18818I$
$b = -1.50924 + 1.35892I$		
$u = 0.289257 - 0.761883I$		
$a = -1.97581 - 1.16549I$	$6.30909 - 5.59657I$	$0. + 5.18818I$
$b = -1.50924 - 1.35892I$		
$u = 1.083520 + 0.481995I$		
$a = 0.248195 - 0.676126I$	$2.55663 - 5.43707I$	0
$b = 0.804054 - 0.749773I$		
$u = 1.083520 - 0.481995I$		
$a = 0.248195 + 0.676126I$	$2.55663 + 5.43707I$	0
$b = 0.804054 + 0.749773I$		
$u = -0.581841 + 0.568659I$		
$a = 0.003892 - 0.554007I$	$2.72118 + 0.71702I$	$0. - 3.61012I$
$b = 0.313242 + 0.437067I$		
$u = -0.581841 - 0.568659I$		
$a = 0.003892 + 0.554007I$	$2.72118 - 0.71702I$	$0. + 3.61012I$
$b = 0.313242 - 0.437067I$		
$u = 1.079460 + 0.493063I$		
$a = 0.99771 - 1.73678I$	$2.47693 - 3.26456I$	0
$b = -0.92938 - 2.12480I$		
$u = 1.079460 - 0.493063I$		
$a = 0.99771 + 1.73678I$	$2.47693 + 3.26456I$	0
$b = -0.92938 + 2.12480I$		
$u = 1.105180 + 0.442868I$		
$a = 0.39641 - 1.45900I$	$-4.30081 - 3.76264I$	0
$b = -2.25176 - 0.52753I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.105180 - 0.442868I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.39641 + 1.45900I$	$-4.30081 + 3.76264I$	0
$b = -2.25176 + 0.52753I$		
$u = -1.103640 + 0.459878I$		
$a = -0.20205 + 2.37315I$	$-4.18487 + 3.65759I$	0
$b = -1.77606 + 0.37432I$		
$u = -1.103640 - 0.459878I$		
$a = -0.20205 - 2.37315I$	$-4.18487 - 3.65759I$	0
$b = -1.77606 - 0.37432I$		
$u = 0.490783 + 0.622967I$		
$a = 0.671800 - 1.099070I$	$4.17258 - 4.06306I$	$3.00416 + 6.96901I$
$b = -0.356204 + 0.144512I$		
$u = 0.490783 - 0.622967I$		
$a = 0.671800 + 1.099070I$	$4.17258 + 4.06306I$	$3.00416 - 6.96901I$
$b = -0.356204 - 0.144512I$		
$u = -0.217990 + 0.762289I$		
$a = -1.72701 + 0.46817I$	$-1.80194 - 7.82902I$	$-4.00000 + 7.12195I$
$b = -1.32925 - 0.48502I$		
$u = -0.217990 - 0.762289I$		
$a = -1.72701 - 0.46817I$	$-1.80194 + 7.82902I$	$-4.00000 - 7.12195I$
$b = -1.32925 + 0.48502I$		
$u = -1.200620 + 0.138247I$		
$a = 0.427924 + 0.370421I$	$-4.59892 - 1.62888I$	0
$b = -1.115830 + 0.250729I$		
$u = -1.200620 - 0.138247I$		
$a = 0.427924 - 0.370421I$	$-4.59892 + 1.62888I$	0
$b = -1.115830 - 0.250729I$		
$u = -0.055067 + 0.789218I$		
$a = -0.373361 + 0.390003I$	$-1.39195 - 2.77336I$	$-6.16101 + 1.36784I$
$b = -0.300683 + 0.596293I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.055067 - 0.789218I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.373361 - 0.390003I$	$-1.39195 + 2.77336I$	$-6.16101 - 1.36784I$
$b = -0.300683 - 0.596293I$		
$u = 1.082950 + 0.540225I$		
$a = 0.30057 - 2.14940I$	$1.76357 - 10.40180I$	0
$b = -1.90780 - 1.79160I$		
$u = 1.082950 - 0.540225I$		
$a = 0.30057 + 2.14940I$	$1.76357 + 10.40180I$	0
$b = -1.90780 + 1.79160I$		
$u = -0.337682 + 0.710933I$		
$a = -1.66022 - 0.03389I$	$1.67787 - 2.33035I$	$1.15873 + 4.49499I$
$b = -1.121330 - 0.635122I$		
$u = -0.337682 - 0.710933I$		
$a = -1.66022 + 0.03389I$	$1.67787 + 2.33035I$	$1.15873 - 4.49499I$
$b = -1.121330 + 0.635122I$		
$u = -1.160380 + 0.354158I$		
$a = 0.07211 + 1.58299I$	$-7.03712 + 0.88475I$	0
$b = -1.168230 + 0.639911I$		
$u = -1.160380 - 0.354158I$		
$a = 0.07211 - 1.58299I$	$-7.03712 - 0.88475I$	0
$b = -1.168230 - 0.639911I$		
$u = 1.108930 + 0.493416I$		
$a = 0.87068 + 2.16235I$	$-1.04151 - 9.77008I$	0
$b = 1.56556 - 0.28063I$		
$u = 1.108930 - 0.493416I$		
$a = 0.87068 - 2.16235I$	$-1.04151 + 9.77008I$	0
$b = 1.56556 + 0.28063I$		
$u = 1.177530 + 0.321781I$		
$a = -0.05443 + 1.47304I$	$-5.98061 + 4.36824I$	0
$b = 1.117860 + 0.667814I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.177530 - 0.321781I$		
$a = -0.05443 - 1.47304I$	$-5.98061 - 4.36824I$	0
$b = 1.117860 - 0.667814I$		
$u = 1.205710 + 0.216443I$		
$a = -0.330995 + 0.543381I$	$-4.69081 - 2.85034I$	0
$b = 1.169470 + 0.369491I$		
$u = 1.205710 - 0.216443I$		
$a = -0.330995 - 0.543381I$	$-4.69081 + 2.85034I$	0
$b = 1.169470 - 0.369491I$		
$u = -1.112930 + 0.525586I$		
$a = -0.36029 - 1.65320I$	$-0.63463 + 6.51514I$	0
$b = 1.36704 - 1.39558I$		
$u = -1.112930 - 0.525586I$		
$a = -0.36029 + 1.65320I$	$-0.63463 - 6.51514I$	0
$b = 1.36704 + 1.39558I$		
$u = 0.389279 + 0.651932I$		
$a = 2.47319 - 0.63631I$	$3.78254 + 5.74388I$	$3.75843 - 8.18320I$
$b = 1.01971 - 1.20809I$		
$u = 0.389279 - 0.651932I$		
$a = 2.47319 + 0.63631I$	$3.78254 - 5.74388I$	$3.75843 + 8.18320I$
$b = 1.01971 + 1.20809I$		
$u = -1.112640 + 0.554702I$		
$a = 0.10133 - 1.62391I$	$-0.57472 + 7.17851I$	0
$b = 1.88701 - 0.83949I$		
$u = -1.112640 - 0.554702I$		
$a = 0.10133 + 1.62391I$	$-0.57472 - 7.17851I$	0
$b = 1.88701 + 0.83949I$		
$u = -0.088174 + 0.749373I$		
$a = 0.91081 + 1.48634I$	$-1.70374 - 3.27624I$	$-8.99219 + 7.85891I$
$b = 0.73142 + 1.51496I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.088174 - 0.749373I$		
$a = 0.91081 - 1.48634I$	$-1.70374 + 3.27624I$	$-8.99219 - 7.85891I$
$b = 0.73142 - 1.51496I$		
$u = -0.306550 + 0.678861I$		
$a = -1.72371 - 0.79331I$	$1.70576 - 1.87348I$	$-0.42450 + 2.49869I$
$b = -0.770129 - 0.856932I$		
$u = -0.306550 - 0.678861I$		
$a = -1.72371 + 0.79331I$	$1.70576 + 1.87348I$	$-0.42450 - 2.49869I$
$b = -0.770129 + 0.856932I$		
$u = 1.187900 + 0.406665I$		
$a = -1.16772 - 0.86560I$	$-5.39828 - 0.73516I$	0
$b = -1.09338 + 1.34279I$		
$u = 1.187900 - 0.406665I$		
$a = -1.16772 + 0.86560I$	$-5.39828 + 0.73516I$	0
$b = -1.09338 - 1.34279I$		
$u = 1.227390 + 0.266113I$		
$a = -0.333602 - 1.089780I$	$-4.99353 + 5.03385I$	0
$b = -1.55000 + 0.38750I$		
$u = 1.227390 - 0.266113I$		
$a = -0.333602 + 1.089780I$	$-4.99353 - 5.03385I$	0
$b = -1.55000 - 0.38750I$		
$u = 1.149540 + 0.513252I$		
$a = -0.163868 - 1.302950I$	$-5.93528 - 7.25693I$	0
$b = -2.15411 - 0.49384I$		
$u = 1.149540 - 0.513252I$		
$a = -0.163868 + 1.302950I$	$-5.93528 + 7.25693I$	0
$b = -2.15411 + 0.49384I$		
$u = 0.185776 + 0.717411I$		
$a = 1.65846 + 0.49340I$	$-3.17767 + 2.62041I$	$-6.33336 - 1.66250I$
$b = 1.300110 - 0.457633I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.185776 - 0.717411I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 1.65846 - 0.49340I$	$-3.17767 - 2.62041I$	$-6.33336 + 1.66250I$
$b = 1.300110 + 0.457633I$		
$u = -1.238700 + 0.235930I$		
$a = 0.259320 - 1.049780I$	$-3.07117 - 10.98410I$	0
$b = 1.56835 + 0.30870I$		
$u = -1.238700 - 0.235930I$		
$a = 0.259320 + 1.049780I$	$-3.07117 + 10.98410I$	0
$b = 1.56835 - 0.30870I$		
$u = 1.098530 + 0.619511I$		
$a = -0.12705 - 1.41433I$	$-0.15592 - 5.14913I$	0
$b = -1.40890 - 0.43078I$		
$u = 1.098530 - 0.619511I$		
$a = -0.12705 + 1.41433I$	$-0.15592 + 5.14913I$	0
$b = -1.40890 + 0.43078I$		
$u = 1.141500 + 0.551235I$		
$a = -0.76008 + 2.15876I$	$3.80506 - 10.53880I$	0
$b = 1.99570 + 1.66220I$		
$u = 1.141500 - 0.551235I$		
$a = -0.76008 - 2.15876I$	$3.80506 + 10.53880I$	0
$b = 1.99570 - 1.66220I$		
$u = 1.187120 + 0.452809I$		
$a = -0.357378 + 0.555827I$	$-4.94754 - 1.54657I$	0
$b = 0.899507 + 0.695896I$		
$u = 1.187120 - 0.452809I$		
$a = -0.357378 - 0.555827I$	$-4.94754 + 1.54657I$	0
$b = 0.899507 - 0.695896I$		
$u = -1.156470 + 0.532261I$		
$a = 0.274557 - 1.321940I$	$-4.53293 + 12.66540I$	0
$b = 2.19449 - 0.51983I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.156470 - 0.532261I$		
$a = 0.274557 + 1.321940I$	$-4.53293 - 12.66540I$	0
$b = 2.19449 + 0.51983I$		
$u = -1.177490 + 0.485615I$		
$a = 1.32633 + 0.93386I$	$-4.83960 + 7.81420I$	0
$b = -0.89475 + 1.83707I$		
$u = -1.177490 - 0.485615I$		
$a = 1.32633 - 0.93386I$	$-4.83960 - 7.81420I$	0
$b = -0.89475 - 1.83707I$		
$u = -1.202220 + 0.499350I$		
$a = 0.460879 + 0.106966I$	$-4.72308 + 7.48847I$	0
$b = -0.283500 + 0.592956I$		
$u = -1.202220 - 0.499350I$		
$a = 0.460879 - 0.106966I$	$-4.72308 - 7.48847I$	0
$b = -0.283500 - 0.592956I$		
$u = -1.174250 + 0.568288I$		
$a = 0.49497 + 1.87336I$	$-2.91281 + 13.75270I$	0
$b = -1.87549 + 1.43747I$		
$u = -1.174250 - 0.568288I$		
$a = 0.49497 - 1.87336I$	$-2.91281 - 13.75270I$	0
$b = -1.87549 - 1.43747I$		
$u = 1.173250 + 0.583567I$		
$a = -0.37502 + 1.92947I$	$-0.6843 - 19.7445I$	0
$b = 1.94210 + 1.38100I$		
$u = 1.173250 - 0.583567I$		
$a = -0.37502 - 1.92947I$	$-0.6843 + 19.7445I$	0
$b = 1.94210 - 1.38100I$		
$u = 0.677018 + 0.122920I$		
$a = -0.090170 + 0.431984I$	$-1.39396 - 0.51937I$	$-7.49436 + 3.54433I$
$b = 0.773640 + 0.904200I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.677018 - 0.122920I$		
$a = -0.090170 - 0.431984I$	$-1.39396 + 0.51937I$	$-7.49436 - 3.54433I$
$b = 0.773640 - 0.904200I$		
$u = 1.268380 + 0.338936I$		
$a = 0.258683 - 0.424308I$	$-5.73048 - 1.79012I$	0
$b = -0.111769 - 0.356158I$		
$u = 1.268380 - 0.338936I$		
$a = 0.258683 + 0.424308I$	$-5.73048 + 1.79012I$	0
$b = -0.111769 + 0.356158I$		
$u = -1.182030 + 0.583698I$		
$a = 0.001713 - 1.285930I$	$-2.18165 + 5.82518I$	0
$b = 1.176240 - 0.645768I$		
$u = -1.182030 - 0.583698I$		
$a = 0.001713 + 1.285930I$	$-2.18165 - 5.82518I$	0
$b = 1.176240 + 0.645768I$		
$u = -1.259890 + 0.406415I$		
$a = -0.173834 - 0.622203I$	$-5.16392 + 7.51600I$	0
$b = 0.365866 - 0.414471I$		
$u = -1.259890 - 0.406415I$		
$a = -0.173834 + 0.622203I$	$-5.16392 - 7.51600I$	0
$b = 0.365866 + 0.414471I$		
$u = 1.171820 + 0.620671I$		
$a = -0.076724 - 1.311900I$	$-1.36507 - 10.18130I$	0
$b = -1.223860 - 0.548169I$		
$u = 1.171820 - 0.620671I$		
$a = -0.076724 + 1.311900I$	$-1.36507 + 10.18130I$	0
$b = -1.223860 + 0.548169I$		
$u = -0.617996 + 0.192261I$		
$a = -2.22103 + 0.11935I$	$4.07274 + 1.60672I$	$-3.83245 - 1.97204I$
$b = 0.786236 + 0.327337I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.617996 - 0.192261I$		
$a = -2.22103 - 0.11935I$	$4.07274 - 1.60672I$	$-3.83245 + 1.97204I$
$b = 0.786236 - 0.327337I$		
$u = 0.462574 + 0.416233I$		
$a = -2.96641 + 1.07919I$	$1.92061 - 5.04402I$	$1.03354 + 6.79994I$
$b = -1.48761 + 0.99410I$		
$u = 0.462574 - 0.416233I$		
$a = -2.96641 - 1.07919I$	$1.92061 + 5.04402I$	$1.03354 - 6.79994I$
$b = -1.48761 - 0.99410I$		
$u = 0.229914 + 0.551330I$		
$a = -2.18549 + 0.22408I$	$1.38604 + 5.52662I$	$-3.41313 - 7.69772I$
$b = -1.49300 - 0.68166I$		
$u = 0.229914 - 0.551330I$		
$a = -2.18549 - 0.22408I$	$1.38604 - 5.52662I$	$-3.41313 + 7.69772I$
$b = -1.49300 + 0.68166I$		
$u = 0.314205 + 0.497227I$		
$a = 2.46177 - 1.97659I$	$4.61091 - 0.89127I$	$3.81617 - 0.08868I$
$b = 0.328127 - 1.321850I$		
$u = 0.314205 - 0.497227I$		
$a = 2.46177 + 1.97659I$	$4.61091 + 0.89127I$	$3.81617 + 0.08868I$
$b = 0.328127 + 1.321850I$		
$u = 0.330308 + 0.437500I$		
$a = 1.56756 - 1.83086I$	$4.70777 + 1.42105I$	$3.12833 - 3.99747I$
$b = -0.302602 + 0.275810I$		
$u = 0.330308 - 0.437500I$		
$a = 1.56756 + 1.83086I$	$4.70777 - 1.42105I$	$3.12833 + 3.99747I$
$b = -0.302602 - 0.275810I$		
$u = -0.009918 + 0.405834I$		
$a = 1.90091 + 1.21729I$	$-1.61251 + 0.11334I$	$-7.50597 + 0.03879I$
$b = 1.38844 - 0.26997I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.009918 - 0.405834I$		
$a = 1.90091 - 1.21729I$	$-1.61251 - 0.11334I$	$-7.50597 - 0.03879I$
$b = 1.38844 + 0.26997I$		
$u = -0.345824$		
$a = 3.70752$	-1.59359	-5.16680
$b = 1.16852$		

$$I_2^u = \langle 8u^{28} + 4u^{27} + \dots + b - 8, 5u^{28} + 6u^{27} + \dots + a - 5, u^{29} + u^{28} + \dots - u - 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u^5 - 2u^3 + u \\ u^5 - u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} -5u^{28} - 6u^{27} + \dots - 6u + 5 \\ -8u^{28} - 4u^{27} + \dots - 4u + 8 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -8u^{28} - 7u^{27} + \dots - 5u + 8 \\ -7u^{28} - 4u^{27} + \dots - 5u + 7 \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -4u^{28} - 5u^{27} + \dots - 5u + 4 \\ -7u^{28} - 4u^{27} + \dots - 4u + 7 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 6u^{28} + 6u^{27} + \dots + 6u - 6 \\ 5u^{28} + 2u^{27} + \dots + 2u - 5 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 3u^{28} - 25u^{26} + \dots - u - 6 \\ 7u^{28} - 53u^{26} + \dots - u - 12 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -7u^{28} - 5u^{27} + \dots - 2u + 11 \\ -5u^{28} - 2u^{27} + \dots + u + 4 \end{pmatrix} \end{aligned}$$

(ii) **Obstruction class = 1**

(iii) **Cusp Shapes**

$$\begin{aligned} &= 15u^{28} - 6u^{27} - 122u^{26} + 28u^{25} + 502u^{24} - 47u^{23} - 1290u^{22} - 66u^{21} + 2257u^{20} + 497u^{19} - \\ &2721u^{18} - 1268u^{17} + 2194u^{16} + 1986u^{15} - 962u^{14} - 2159u^{13} - 163u^{12} + 1660u^{11} + \\ &800u^{10} - 937u^9 - 994u^8 + 397u^7 + 890u^6 - 159u^5 - 552u^4 + 55u^3 + 228u^2 - 21u - 56 \end{aligned}$$

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

Crossings	u-Polynomials at each crossing
c_1	$u^{29} - 15u^{28} + \cdots + 11u - 1$
c_2	$u^{29} + u^{28} + \cdots - u - 1$
c_3	$u^{29} - u^{28} + \cdots - u + 1$
c_4	$u^{29} - 2u^{28} + \cdots - 2u + 1$
c_5	$u^{29} - u^{28} + \cdots - u + 1$
c_6	$u^{29} - 3u^{28} + \cdots - u + 1$
c_7	$u^{29} - 2u^{28} + \cdots - u - 1$
c_8	$u^{29} + 2u^{28} + \cdots - 2u - 1$
c_9	$u^{29} - u^{28} + \cdots + 13u + 1$
c_{10}	$u^{29} + u^{28} + \cdots - u - 1$
c_{11}	$u^{29} - 15u^{28} + \cdots - 19u + 1$
c_{12}	$u^{29} - u^{28} + \cdots + 2u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{29} + y^{28} + \cdots - 5y - 1$
c_2, c_5	$y^{29} - 15y^{28} + \cdots + 11y - 1$
c_3, c_{10}	$y^{29} + 15y^{28} + \cdots - 19y - 1$
c_4, c_8	$y^{29} - 30y^{28} + \cdots + 24y - 1$
c_6	$y^{29} + 13y^{28} + \cdots + 17y - 1$
c_7	$y^{29} - 2y^{28} + \cdots + 3y - 1$
c_9	$y^{29} - 15y^{28} + \cdots + 13y - 1$
c_{11}	$y^{29} + 11y^{28} + \cdots + 5y - 1$
c_{12}	$y^{29} - 3y^{28} + \cdots + 2y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.012830 + 0.257666I$		
$a = -1.02127 + 1.12267I$	$-3.52317 - 0.78224I$	$-13.57115 - 0.79473I$
$b = 0.964290 + 1.002990I$		
$u = 1.012830 - 0.257666I$		
$a = -1.02127 - 1.12267I$	$-3.52317 + 0.78224I$	$-13.57115 + 0.79473I$
$b = 0.964290 - 1.002990I$		
$u = -0.447640 + 0.820964I$		
$a = -1.129020 + 0.024098I$	$1.067470 - 0.913618I$	$-2.47813 + 4.14437I$
$b = -0.916140 - 0.220208I$		
$u = -0.447640 - 0.820964I$		
$a = -1.129020 - 0.024098I$	$1.067470 + 0.913618I$	$-2.47813 - 4.14437I$
$b = -0.916140 + 0.220208I$		
$u = -0.125860 + 0.908684I$		
$a = -0.385304 - 0.793638I$	$-0.82578 - 2.86981I$	$3.34364 + 6.99484I$
$b = -0.313879 - 0.750734I$		
$u = -0.125860 - 0.908684I$		
$a = -0.385304 + 0.793638I$	$-0.82578 + 2.86981I$	$3.34364 - 6.99484I$
$b = -0.313879 + 0.750734I$		
$u = -1.035630 + 0.376015I$		
$a = 0.55437 + 1.94601I$	$-0.49978 - 2.67316I$	$-5.42153 + 3.02884I$
$b = -2.40805 + 0.75033I$		
$u = -1.035630 - 0.376015I$		
$a = 0.55437 - 1.94601I$	$-0.49978 + 2.67316I$	$-5.42153 - 3.02884I$
$b = -2.40805 - 0.75033I$		
$u = -1.011100 + 0.465853I$		
$a = -0.641998 - 0.234013I$	$3.27409 + 4.23230I$	$3.03729 - 4.05269I$
$b = -1.33336 - 1.09971I$		
$u = -1.011100 - 0.465853I$		
$a = -0.641998 + 0.234013I$	$3.27409 - 4.23230I$	$3.03729 + 4.05269I$
$b = -1.33336 + 1.09971I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.016900 + 0.483979I$		
$a = 0.438928 - 1.222220I$	$3.41025 - 1.82150I$	$2.98987 + 2.43916I$
$b = 0.208345 - 1.330300I$		
$u = 1.016900 - 0.483979I$		
$a = 0.438928 + 1.222220I$	$3.41025 + 1.82150I$	$2.98987 - 2.43916I$
$b = 0.208345 + 1.330300I$		
$u = 0.490643 + 0.667636I$		
$a = 1.82275 + 0.21847I$	$2.63775 + 4.59064I$	$0.73778 - 4.42435I$
$b = 1.223770 - 0.185664I$		
$u = 0.490643 - 0.667636I$		
$a = 1.82275 - 0.21847I$	$2.63775 - 4.59064I$	$0.73778 + 4.42435I$
$b = 1.223770 + 0.185664I$		
$u = 1.076950 + 0.549716I$		
$a = -0.32785 - 2.09071I$	$0.82142 - 9.33880I$	$-2.66312 + 8.92858I$
$b = -1.91152 - 0.68915I$		
$u = 1.076950 - 0.549716I$		
$a = -0.32785 + 2.09071I$	$0.82142 + 9.33880I$	$-2.66312 - 8.92858I$
$b = -1.91152 + 0.68915I$		
$u = 0.787229$		
$a = -1.47635$	-2.37934	-17.8910
$b = -1.19340$		
$u = 0.617194 + 0.455336I$		
$a = 2.10546 - 0.52027I$	$4.73074 - 2.12491I$	$3.90460 + 6.70846I$
$b = -0.156164 - 0.427777I$		
$u = 0.617194 - 0.455336I$		
$a = 2.10546 + 0.52027I$	$4.73074 + 2.12491I$	$3.90460 - 6.70846I$
$b = -0.156164 + 0.427777I$		
$u = -0.644637 + 0.408946I$		
$a = -1.38292 - 1.00681I$	$4.53076 - 0.49076I$	$2.29772 - 2.76161I$
$b = 1.008830 - 0.163629I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.644637 - 0.408946I$		
$a = -1.38292 + 1.00681I$	$4.53076 + 0.49076I$	$2.29772 + 2.76161I$
$b = 1.008830 + 0.163629I$		
$u = -0.718185 + 0.210952I$		
$a = 1.272540 - 0.007370I$	$0.87385 + 5.38852I$	$-4.20699 - 10.26261I$
$b = 1.55321 + 1.24992I$		
$u = -0.718185 - 0.210952I$		
$a = 1.272540 + 0.007370I$	$0.87385 - 5.38852I$	$-4.20699 + 10.26261I$
$b = 1.55321 - 1.24992I$		
$u = 1.201740 + 0.364526I$		
$a = 0.545294 + 0.710099I$	$-5.13331 - 1.17993I$	$-4.64934 + 3.15889I$
$b = 0.916530 - 0.798971I$		
$u = 1.201740 - 0.364526I$		
$a = 0.545294 - 0.710099I$	$-5.13331 + 1.17993I$	$-4.64934 - 3.15889I$
$b = 0.916530 + 0.798971I$		
$u = -1.113040 + 0.592971I$		
$a = 0.27814 - 1.39378I$	$-0.99821 + 6.18935I$	$-5.01467 - 4.90175I$
$b = 1.50688 - 0.49438I$		
$u = -1.113040 - 0.592971I$		
$a = 0.27814 + 1.39378I$	$-0.99821 - 6.18935I$	$-5.01467 + 4.90175I$
$b = 1.50688 + 0.49438I$		
$u = -1.213780 + 0.489666I$		
$a = -0.890937 - 0.393478I$	$-4.24162 + 7.81555I$	$1.63940 - 9.21259I$
$b = 0.253960 - 1.287140I$		
$u = -1.213780 - 0.489666I$		
$a = -0.890937 + 0.393478I$	$-4.24162 - 7.81555I$	$1.63940 + 9.21259I$
$b = 0.253960 + 1.287140I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{29} - 15u^{28} + \dots + 11u - 1)(u^{152} + 76u^{151} + \dots + 13u + 1)$
c_2	$(u^{29} + u^{28} + \dots - u - 1)(u^{152} + 2u^{151} + \dots - u - 1)$
c_3	$(u^{29} - u^{28} + \dots - u + 1)(u^{152} + 33u^{150} + \dots + 783u + 259)$
c_4	$(u^{29} - 2u^{28} + \dots - 2u + 1)(u^{152} + u^{151} + \dots + 6u + 1)$
c_5	$(u^{29} - u^{28} + \dots - u + 1)(u^{152} + 2u^{151} + \dots - u - 1)$
c_6	$(u^{29} - 3u^{28} + \dots - u + 1)(u^{152} + 6u^{151} + \dots - 3317745u - 609725)$
c_7	$(u^{29} - 2u^{28} + \dots - u - 1)(u^{152} - u^{151} + \dots + 57u - 1)$
c_8	$(u^{29} + 2u^{28} + \dots - 2u - 1)(u^{152} + u^{151} + \dots + 6u + 1)$
c_9	$(u^{29} - u^{28} + \dots + 13u + 1)(u^{152} - 20u^{151} + \dots + 21337u - 12353)$
c_{10}	$(u^{29} + u^{28} + \dots - u - 1)(u^{152} + 33u^{150} + \dots + 783u + 259)$
c_{11}	$(u^{29} - 15u^{28} + \dots - 19u + 1)$ $\cdot (u^{152} - 66u^{151} + \dots - 1636585u + 67081)$
c_{12}	$(u^{29} - u^{28} + \dots + 2u + 1)(u^{152} - 14u^{151} + \dots - 30u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{29} + y^{28} + \dots - 5y - 1)(y^{152} + 4y^{151} + \dots - 105y + 1)$
c_2, c_5	$(y^{29} - 15y^{28} + \dots + 11y - 1)(y^{152} - 76y^{151} + \dots - 13y + 1)$
c_3, c_{10}	$(y^{29} + 15y^{28} + \dots - 19y - 1)$ $\cdot (y^{152} + 66y^{151} + \dots + 1636585y + 67081)$
c_4, c_8	$(y^{29} - 30y^{28} + \dots + 24y - 1)(y^{152} - 99y^{151} + \dots - 18y + 1)$
c_6	$(y^{29} + 13y^{28} + \dots + 17y - 1)$ $\cdot (y^{152} + 68y^{151} + \dots - 27842735435875y + 371764575625)$
c_7	$(y^{29} - 2y^{28} + \dots + 3y - 1)(y^{152} + y^{151} + \dots - 129y + 1)$
c_9	$(y^{29} - 15y^{28} + \dots + 13y - 1)$ $\cdot (y^{152} - 40y^{151} + \dots - 15266440451y + 152596609)$
c_{11}	$(y^{29} + 11y^{28} + \dots + 5y - 1)$ $\cdot (y^{152} + 54y^{151} + \dots + 6314845277y + 4499860561)$
c_{12}	$(y^{29} - 3y^{28} + \dots + 2y - 1)(y^{152} - 4y^{151} + \dots + 152y + 1)$