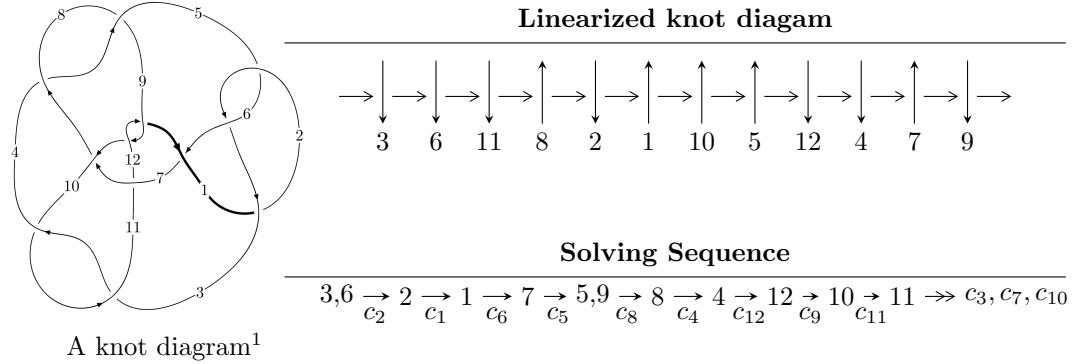


$12a_{0469}$ ($K12a_{0469}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u = & \langle 6.63633 \times 10^{186} u^{142} + 2.53542 \times 10^{189} u^{141} + \dots + 9.01034 \times 10^{189} b + 3.59708 \times 10^{190}, \\
 & - 8.67414 \times 10^{190} u^{142} + 3.49780 \times 10^{191} u^{141} + \dots + 4.23486 \times 10^{191} a - 1.16899 \times 10^{193}, \\
 & u^{143} - 3u^{142} + \dots + 110u - 47 \rangle \\
 I_2^u = & \langle 4u^{34} + 7u^{33} + \dots + b - 5, -3u^{34} - 2u^{33} + \dots + a + 2, u^{35} + 2u^{34} + \dots - 2u - 1 \rangle
 \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 178 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.

$$\text{I. } I_1^u = \langle 6.64 \times 10^{186} u^{142} + 2.54 \times 10^{189} u^{141} + \dots + 9.01 \times 10^{189} b + 3.60 \times 10^{190}, -8.67 \times 10^{190} u^{142} + 3.50 \times 10^{191} u^{141} + \dots + 4.23 \times 10^{191} a - 1.17 \times 10^{193}, u^{143} - 3u^{142} + \dots + 110u - 47 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u^5 - 2u^3 + u \\ u^5 - u^3 + u \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0.204827u^{142} - 0.825954u^{141} + \dots - 44.4711u + 27.6040 \\ -0.000736524u^{142} - 0.281390u^{141} + \dots + 8.40058u - 3.99217 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.770473u^{142} - 2.27599u^{141} + \dots - 96.6026u + 66.2237 \\ 0.589171u^{142} - 1.10912u^{141} + \dots - 43.1569u + 23.0231 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -0.623467u^{142} + 0.435106u^{141} + \dots + 70.3674u - 10.6358 \\ 0.402860u^{142} - 0.856118u^{141} + \dots - 19.8741u + 12.8858 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -0.287141u^{142} + 0.974601u^{141} + \dots + 31.1944u - 41.8783 \\ -1.17791u^{142} + 2.62231u^{141} + \dots + 91.6207u - 54.4365 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -0.682533u^{142} + 1.81972u^{141} + \dots + 86.3997u - 44.9083 \\ 0.128085u^{142} - 0.345952u^{141} + \dots - 14.7059u + 8.01038 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -1.00812u^{142} + 1.95993u^{141} + \dots + 46.9184u - 61.1004 \\ -0.281878u^{142} + 0.435375u^{141} + \dots + 17.4712u - 15.1734 \end{pmatrix} \end{aligned}$$

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

(iii) **Cusp Shapes** = $-1.34172u^{142} + 2.00690u^{141} + \dots + 81.0326u - 68.7918$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{143} + 69u^{142} + \cdots + 24038u + 2209$
c_2, c_5	$u^{143} + 3u^{142} + \cdots + 110u + 47$
c_3, c_{10}	$u^{143} + 2u^{142} + \cdots + 22312u + 8024$
c_4, c_8	$u^{143} - 60u^{141} + \cdots + 6466443u + 1229681$
c_6	$u^{143} + 9u^{142} + \cdots + 1198600u + 745279$
c_7	$u^{143} + 6u^{142} + \cdots + 586376963u + 10200841$
c_9, c_{12}	$u^{143} - 7u^{142} + \cdots - 220108u + 19079$
c_{11}	$u^{143} - 2u^{142} + \cdots + 111690u + 3457$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{143} + 15y^{142} + \dots - 116759262y - 4879681$
c_2, c_5	$y^{143} - 69y^{142} + \dots + 24038y - 2209$
c_3, c_{10}	$y^{143} + 100y^{142} + \dots - 1978348960y - 64384576$
c_4, c_8	$y^{143} - 120y^{142} + \dots + 46027317196279y - 1512115361761$
c_6	$y^{143} + 39y^{142} + \dots - 20746243156102y - 555440787841$
c_7	$y^{143} - 64y^{142} + \dots + 259743448139619271y - 104057157107281$
c_9, c_{12}	$y^{143} + 95y^{142} + \dots - 14790500680y - 364008241$
c_{11}	$y^{143} - 32y^{142} + \dots - 2418099900y - 11950849$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.972824 + 0.166718I$		
$a = 0.457246 - 0.655270I$	$-1.56643 - 0.21461I$	0
$b = 0.443113 - 0.693346I$		
$u = 0.972824 - 0.166718I$		
$a = 0.457246 + 0.655270I$	$-1.56643 + 0.21461I$	0
$b = 0.443113 + 0.693346I$		
$u = -0.708715 + 0.678500I$		
$a = 0.523211 - 0.094624I$	$7.19922 + 5.10187I$	0
$b = -0.299899 - 0.694127I$		
$u = -0.708715 - 0.678500I$		
$a = 0.523211 + 0.094624I$	$7.19922 - 5.10187I$	0
$b = -0.299899 + 0.694127I$		
$u = -0.880184 + 0.385121I$		
$a = -1.185250 + 0.170640I$	$7.36065 - 0.12789I$	0
$b = 1.064630 - 0.155834I$		
$u = -0.880184 - 0.385121I$		
$a = -1.185250 - 0.170640I$	$7.36065 + 0.12789I$	0
$b = 1.064630 + 0.155834I$		
$u = -0.155908 + 0.946772I$		
$a = -0.532330 - 1.039930I$	$3.06061 - 2.11603I$	0
$b = -0.284300 - 1.063160I$		
$u = -0.155908 - 0.946772I$		
$a = -0.532330 + 1.039930I$	$3.06061 + 2.11603I$	0
$b = -0.284300 + 1.063160I$		
$u = -0.833634 + 0.637751I$		
$a = -0.666098 + 0.015768I$	$6.81184 - 0.08124I$	0
$b = 0.581521 + 0.100790I$		
$u = -0.833634 - 0.637751I$		
$a = -0.666098 - 0.015768I$	$6.81184 + 0.08124I$	0
$b = 0.581521 - 0.100790I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.530366 + 0.908248I$		
$a = 1.313440 - 0.227015I$	$5.17661 + 3.94715I$	0
$b = 1.105910 - 0.828042I$		
$u = 0.530366 - 0.908248I$		
$a = 1.313440 + 0.227015I$	$5.17661 - 3.94715I$	0
$b = 1.105910 + 0.828042I$		
$u = -0.968963 + 0.409052I$		
$a = -0.158932 - 0.732323I$	$6.92421 + 3.31324I$	0
$b = -1.02996 - 1.13546I$		
$u = -0.968963 - 0.409052I$		
$a = -0.158932 + 0.732323I$	$6.92421 - 3.31324I$	0
$b = -1.02996 + 1.13546I$		
$u = -0.766524 + 0.558095I$		
$a = -0.231162 - 0.487931I$	$2.91700 + 2.23279I$	0
$b = -0.1077570 + 0.0220050I$		
$u = -0.766524 - 0.558095I$		
$a = -0.231162 + 0.487931I$	$2.91700 - 2.23279I$	0
$b = -0.1077570 - 0.0220050I$		
$u = -0.369709 + 0.868053I$		
$a = -1.284080 - 0.591736I$	$3.40285 - 2.50921I$	0
$b = -0.805909 - 1.045650I$		
$u = -0.369709 - 0.868053I$		
$a = -1.284080 + 0.591736I$	$3.40285 + 2.50921I$	0
$b = -0.805909 + 1.045650I$		
$u = 0.354373 + 0.870826I$		
$a = -1.83010 + 0.96443I$	$9.7755 + 13.6299I$	0
$b = -1.23920 + 1.44860I$		
$u = 0.354373 - 0.870826I$		
$a = -1.83010 - 0.96443I$	$9.7755 - 13.6299I$	0
$b = -1.23920 - 1.44860I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.699661 + 0.812819I$		
$a = -0.527943 + 0.204742I$	$11.8272 - 10.0325I$	0
$b = 0.198819 - 0.419500I$		
$u = 0.699661 - 0.812819I$		
$a = -0.527943 - 0.204742I$	$11.8272 + 10.0325I$	0
$b = 0.198819 + 0.419500I$		
$u = -0.694266 + 0.614024I$		
$a = -1.248230 - 0.210637I$	$5.89656 - 1.21715I$	0
$b = -1.24064 - 1.19424I$		
$u = -0.694266 - 0.614024I$		
$a = -1.248230 + 0.210637I$	$5.89656 + 1.21715I$	0
$b = -1.24064 + 1.19424I$		
$u = -0.941272 + 0.516355I$		
$a = -0.52190 - 1.94208I$	$5.18149 + 5.68292I$	0
$b = 2.09560 - 0.87394I$		
$u = -0.941272 - 0.516355I$		
$a = -0.52190 + 1.94208I$	$5.18149 - 5.68292I$	0
$b = 2.09560 + 0.87394I$		
$u = -0.415880 + 0.824832I$		
$a = 0.272830 - 0.206774I$	$3.60534 - 1.56932I$	0
$b = 0.460703 + 0.565218I$		
$u = -0.415880 - 0.824832I$		
$a = 0.272830 + 0.206774I$	$3.60534 + 1.56932I$	0
$b = 0.460703 - 0.565218I$		
$u = -0.914124 + 0.097993I$		
$a = 0.988930 - 0.614990I$	$-1.35267 + 2.48849I$	0
$b = -0.410080 - 0.078116I$		
$u = -0.914124 - 0.097993I$		
$a = 0.988930 + 0.614990I$	$-1.35267 - 2.48849I$	0
$b = -0.410080 + 0.078116I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.063140 + 0.251935I$		
$a = 0.82056 - 1.44493I$	$5.54141 + 1.35505I$	0
$b = 1.72251 + 0.95045I$		
$u = -1.063140 - 0.251935I$		
$a = 0.82056 + 1.44493I$	$5.54141 - 1.35505I$	0
$b = 1.72251 - 0.95045I$		
$u = 1.037820 + 0.343141I$		
$a = 0.63923 - 1.34805I$	$-2.55857 - 1.59318I$	0
$b = -1.92675 - 0.46592I$		
$u = 1.037820 - 0.343141I$		
$a = 0.63923 + 1.34805I$	$-2.55857 + 1.59318I$	0
$b = -1.92675 + 0.46592I$		
$u = 0.980544 + 0.502007I$		
$a = -0.07536 - 2.40050I$	$4.85216 - 6.19501I$	0
$b = -1.69153 - 1.68869I$		
$u = 0.980544 - 0.502007I$		
$a = -0.07536 + 2.40050I$	$4.85216 + 6.19501I$	0
$b = -1.69153 + 1.68869I$		
$u = -1.052390 + 0.329534I$		
$a = -0.15226 + 1.68415I$	$-2.38585 - 0.84245I$	0
$b = -1.013310 + 0.564916I$		
$u = -1.052390 - 0.329534I$		
$a = -0.15226 - 1.68415I$	$-2.38585 + 0.84245I$	0
$b = -1.013310 - 0.564916I$		
$u = -0.980995 + 0.505565I$		
$a = -0.67298 + 1.49972I$	$4.85895 - 0.80993I$	0
$b = -2.82321 + 0.22541I$		
$u = -0.980995 - 0.505565I$		
$a = -0.67298 - 1.49972I$	$4.85895 + 0.80993I$	0
$b = -2.82321 - 0.22541I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.099640 + 0.098831I$		
$a = 0.472703 - 0.379509I$	$-1.28064 + 2.45502I$	0
$b = -0.838676 + 0.036532I$		
$u = -1.099640 - 0.098831I$		
$a = 0.472703 + 0.379509I$	$-1.28064 - 2.45502I$	0
$b = -0.838676 - 0.036532I$		
$u = 1.102080 + 0.150812I$		
$a = 0.085422 + 0.816881I$	$-1.91809 + 0.00326I$	0
$b = 0.857151 + 0.292846I$		
$u = 1.102080 - 0.150812I$		
$a = 0.085422 - 0.816881I$	$-1.91809 - 0.00326I$	0
$b = 0.857151 - 0.292846I$		
$u = 0.980875 + 0.541795I$		
$a = 0.59391 + 2.19908I$	$5.54069 + 0.82722I$	0
$b = 1.59194 + 0.45165I$		
$u = 0.980875 - 0.541795I$		
$a = 0.59391 - 2.19908I$	$5.54069 - 0.82722I$	0
$b = 1.59194 - 0.45165I$		
$u = 0.353397 + 0.805249I$		
$a = 0.778414 - 0.593203I$	$3.81909 + 0.03447I$	0
$b = 0.426361 - 0.044050I$		
$u = 0.353397 - 0.805249I$		
$a = 0.778414 + 0.593203I$	$3.81909 - 0.03447I$	0
$b = 0.426361 + 0.044050I$		
$u = -1.080150 + 0.308520I$		
$a = -1.46234 + 1.31744I$	$5.01697 - 0.50877I$	0
$b = -2.11381 - 0.78228I$		
$u = -1.080150 - 0.308520I$		
$a = -1.46234 - 1.31744I$	$5.01697 + 0.50877I$	0
$b = -2.11381 + 0.78228I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.319767 + 0.810994I$		
$a = 1.71954 + 1.20874I$	$5.13477 - 7.54242I$	0
$b = 1.10695 + 1.54912I$		
$u = -0.319767 - 0.810994I$		
$a = 1.71954 - 1.20874I$	$5.13477 + 7.54242I$	0
$b = 1.10695 - 1.54912I$		
$u = 0.598493 + 0.627176I$		
$a = -1.90623 + 0.02992I$	$6.66585 - 5.42992I$	0
$b = -1.182720 + 0.231295I$		
$u = 0.598493 - 0.627176I$		
$a = -1.90623 - 0.02992I$	$6.66585 + 5.42992I$	0
$b = -1.182720 - 0.231295I$		
$u = 0.655071 + 0.556470I$		
$a = 2.34251 + 0.28017I$	$5.85355 + 1.95630I$	0
$b = 0.820805 - 0.996678I$		
$u = 0.655071 - 0.556470I$		
$a = 2.34251 - 0.28017I$	$5.85355 - 1.95630I$	0
$b = 0.820805 + 0.996678I$		
$u = -1.119770 + 0.232625I$		
$a = -0.360988 - 0.758476I$	$0.89596 - 4.79112I$	0
$b = 1.68688 - 0.20289I$		
$u = -1.119770 - 0.232625I$		
$a = -0.360988 + 0.758476I$	$0.89596 + 4.79112I$	0
$b = 1.68688 + 0.20289I$		
$u = -0.628500 + 0.580830I$		
$a = 0.94403 - 1.22625I$	$5.89936 + 5.13045I$	0
$b = 1.38369 + 0.91606I$		
$u = -0.628500 - 0.580830I$		
$a = 0.94403 + 1.22625I$	$5.89936 - 5.13045I$	0
$b = 1.38369 - 0.91606I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.039260 + 0.524971I$		
$a = 0.447858 - 0.559550I$	$7.90251 - 2.69052I$	0
$b = 1.19179 - 1.01888I$		
$u = 1.039260 - 0.524971I$		
$a = 0.447858 + 0.559550I$	$7.90251 + 2.69052I$	0
$b = 1.19179 + 1.01888I$		
$u = 1.137490 + 0.254166I$		
$a = 0.22161 + 1.48098I$	$-0.04528 + 4.02330I$	0
$b = 1.020090 + 0.663149I$		
$u = 1.137490 - 0.254166I$		
$a = 0.22161 - 1.48098I$	$-0.04528 - 4.02330I$	0
$b = 1.020090 - 0.663149I$		
$u = 1.030140 + 0.553117I$		
$a = 0.935402 + 0.725454I$	$8.88478 - 5.60498I$	0
$b = -0.113045 - 0.252441I$		
$u = 1.030140 - 0.553117I$		
$a = 0.935402 - 0.725454I$	$8.88478 + 5.60498I$	0
$b = -0.113045 + 0.252441I$		
$u = 0.343261 + 0.751174I$		
$a = -1.86707 + 0.48669I$	$5.40318 + 7.44818I$	$0. - 5.06717I$
$b = -1.353350 + 0.329263I$		
$u = 0.343261 - 0.751174I$		
$a = -1.86707 - 0.48669I$	$5.40318 - 7.44818I$	$0. + 5.06717I$
$b = -1.353350 - 0.329263I$		
$u = 1.063360 + 0.507382I$		
$a = -0.080114 + 0.841019I$	$-0.23235 - 2.30271I$	0
$b = 1.63402 + 0.60538I$		
$u = 1.063360 - 0.507382I$		
$a = -0.080114 - 0.841019I$	$-0.23235 + 2.30271I$	0
$b = 1.63402 - 0.60538I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.041265 + 0.817285I$		
$a = -0.629740 - 0.365556I$	$2.74738 - 0.57734I$	$2.75565 - 1.84059I$
$b = -0.413784 + 0.307123I$		
$u = -0.041265 - 0.817285I$		
$a = -0.629740 + 0.365556I$	$2.74738 + 0.57734I$	$2.75565 + 1.84059I$
$b = -0.413784 - 0.307123I$		
$u = 0.513652 + 0.633449I$		
$a = -1.066360 - 0.153909I$	$10.41030 + 0.93865I$	$8.38027 + 0.I$
$b = -0.160943 - 0.875108I$		
$u = 0.513652 - 0.633449I$		
$a = -1.066360 + 0.153909I$	$10.41030 - 0.93865I$	$8.38027 + 0.I$
$b = -0.160943 + 0.875108I$		
$u = -0.315496 + 0.751196I$		
$a = -1.95287 + 0.24999I$	$4.38475 - 6.88202I$	$4.27738 + 6.29373I$
$b = -1.26102 - 1.00604I$		
$u = -0.315496 - 0.751196I$		
$a = -1.95287 - 0.24999I$	$4.38475 + 6.88202I$	$4.27738 - 6.29373I$
$b = -1.26102 + 1.00604I$		
$u = -1.106880 + 0.432563I$		
$a = 0.72308 + 1.28589I$	$-4.40650 + 4.69872I$	0
$b = -1.09498 + 1.16407I$		
$u = -1.106880 - 0.432563I$		
$a = 0.72308 - 1.28589I$	$-4.40650 - 4.69872I$	0
$b = -1.09498 - 1.16407I$		
$u = -1.088060 + 0.482697I$		
$a = 0.037166 - 1.260340I$	$-0.52510 + 4.54564I$	0
$b = 0.722615 - 0.744111I$		
$u = -1.088060 - 0.482697I$		
$a = 0.037166 + 1.260340I$	$-0.52510 - 4.54564I$	0
$b = 0.722615 + 0.744111I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.142590 + 0.338869I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.341870 + 0.900979I$	$-3.33340 - 0.19145I$	0
$b = 0.996317 + 0.809975I$		
$u = 1.142590 - 0.338869I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.341870 - 0.900979I$	$-3.33340 + 0.19145I$	0
$b = 0.996317 - 0.809975I$		
$u = 1.112800 + 0.443412I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.418349 - 1.070480I$	$-4.33577 - 2.82257I$	0
$b = -1.335090 + 0.190699I$		
$u = 1.112800 - 0.443412I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.418349 + 1.070480I$	$-4.33577 + 2.82257I$	0
$b = -1.335090 - 0.190699I$		
$u = 0.374933 + 0.707223I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -1.97347 + 1.54875I$	$9.74954 + 0.95514I$	$7.29179 + 0.I$
$b = -1.09571 + 1.74529I$		
$u = 0.374933 - 0.707223I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -1.97347 - 1.54875I$	$9.74954 - 0.95514I$	$7.29179 + 0.I$
$b = -1.09571 - 1.74529I$		
$u = -1.131250 + 0.399092I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.117006 - 1.086150I$	$-0.66581 + 4.69744I$	0
$b = 0.390296 - 0.729978I$		
$u = -1.131250 - 0.399092I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.117006 + 1.086150I$	$-0.66581 - 4.69744I$	0
$b = 0.390296 + 0.729978I$		
$u = -1.078340 + 0.534415I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.31479 + 2.23263I$	$-1.17966 + 5.21827I$	0
$b = -1.76896 + 0.51547I$		
$u = -1.078340 - 0.534415I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.31479 - 2.23263I$	$-1.17966 - 5.21827I$	0
$b = -1.76896 - 0.51547I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.188380 + 0.223267I$ $a = -0.595313 - 1.060500I$ $b = -1.35584 + 0.61308I$	$0.28461 + 4.49742I$	0
$u = 1.188380 - 0.223267I$ $a = -0.595313 + 1.060500I$ $b = -1.35584 - 0.61308I$	$0.28461 - 4.49742I$	0
$u = 1.090120 + 0.535407I$ $a = 0.15356 - 1.42737I$ $b = -2.11704 - 0.94380I$	$-0.92239 - 7.86140I$	0
$u = 1.090120 - 0.535407I$ $a = 0.15356 + 1.42737I$ $b = -2.11704 + 0.94380I$	$-0.92239 + 7.86140I$	0
$u = 1.161740 + 0.358048I$ $a = -0.354856 + 0.411136I$ $b = 1.149140 + 0.646764I$	$-1.07191 - 3.32802I$	0
$u = 1.161740 - 0.358048I$ $a = -0.354856 - 0.411136I$ $b = 1.149140 - 0.646764I$	$-1.07191 + 3.32802I$	0
$u = 0.954903 + 0.753538I$ $a = 0.332770 + 0.297611I$ $b = -0.413702 + 0.194495I$	$11.08670 + 4.23142I$	0
$u = 0.954903 - 0.753538I$ $a = 0.332770 - 0.297611I$ $b = -0.413702 - 0.194495I$	$11.08670 - 4.23142I$	0
$u = 1.104380 + 0.541873I$ $a = 1.12120 - 2.12601I$ $b = -1.62520 - 2.74262I$	$6.63347 - 7.81407I$	0
$u = 1.104380 - 0.541873I$ $a = 1.12120 + 2.12601I$ $b = -1.62520 + 2.74262I$	$6.63347 + 7.81407I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.099250 + 0.562689I$		
$a = -1.12421 + 2.06158I$	$7.63591 - 5.83063I$	0
$b = 1.58518 + 2.10470I$		
$u = 1.099250 - 0.562689I$		
$a = -1.12421 - 2.06158I$	$7.63591 + 5.83063I$	0
$b = 1.58518 - 2.10470I$		
$u = -0.206083 + 0.731369I$		
$a = -1.232460 + 0.382744I$	$0.59474 - 3.17310I$	$-2.06425 + 3.72611I$
$b = -0.890098 + 0.074368I$		
$u = -0.206083 - 0.731369I$		
$a = -1.232460 - 0.382744I$	$0.59474 + 3.17310I$	$-2.06425 - 3.72611I$
$b = -0.890098 - 0.074368I$		
$u = -1.235100 + 0.167614I$		
$a = 0.454999 - 0.986798I$	$4.37144 - 10.54680I$	0
$b = 1.36426 + 0.37356I$		
$u = -1.235100 - 0.167614I$		
$a = 0.454999 + 0.986798I$	$4.37144 + 10.54680I$	0
$b = 1.36426 - 0.37356I$		
$u = 0.491676 + 0.568739I$		
$a = 1.06008 - 1.39885I$	$9.52507 - 1.72118I$	$9.60795 + 1.73984I$
$b = -0.697525 + 0.255146I$		
$u = 0.491676 - 0.568739I$		
$a = 1.06008 + 1.39885I$	$9.52507 + 1.72118I$	$9.60795 - 1.73984I$
$b = -0.697525 - 0.255146I$		
$u = 0.333909 + 0.667903I$		
$a = 2.61572 - 1.68046I$	$8.85396 + 3.11371I$	$9.02540 - 3.09080I$
$b = 0.82010 - 1.90888I$		
$u = 0.333909 - 0.667903I$		
$a = 2.61572 + 1.68046I$	$8.85396 - 3.11371I$	$9.02540 + 3.09080I$
$b = 0.82010 + 1.90888I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.119880 + 0.568440I$		
$a = 0.19758 + 1.92402I$	$3.12696 - 12.44270I$	0
$b = 1.58340 + 0.67474I$		
$u = 1.119880 - 0.568440I$		
$a = 0.19758 - 1.92402I$	$3.12696 + 12.44270I$	0
$b = 1.58340 - 0.67474I$		
$u = -1.127840 + 0.560790I$		
$a = 0.14680 - 1.53067I$	$2.01141 + 11.83950I$	0
$b = 2.37872 - 1.04523I$		
$u = -1.127840 - 0.560790I$		
$a = 0.14680 + 1.53067I$	$2.01141 - 11.83950I$	0
$b = 2.37872 + 1.04523I$		
$u = -1.150450 + 0.513816I$		
$a = 0.390565 - 1.011470I$	$-2.14519 + 7.85574I$	0
$b = 1.303450 - 0.161910I$		
$u = -1.150450 - 0.513816I$		
$a = 0.390565 + 1.011470I$	$-2.14519 - 7.85574I$	0
$b = 1.303450 + 0.161910I$		
$u = 0.735658$		
$a = 0.399640$	-1.25008	-9.92610
$b = 0.645718$		
$u = -1.113720 + 0.600652I$		
$a = 0.089458 + 0.459286I$	$1.49604 + 6.86714I$	0
$b = -1.125210 + 0.316433I$		
$u = -1.113720 - 0.600652I$		
$a = 0.089458 - 0.459286I$	$1.49604 - 6.86714I$	0
$b = -1.125210 - 0.316433I$		
$u = 1.125260 + 0.582666I$		
$a = -0.046136 - 1.066780I$	$1.52970 - 5.20102I$	0
$b = -0.504735 - 0.459395I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.125260 - 0.582666I$		
$a = -0.046136 + 1.066780I$	$1.52970 + 5.20102I$	0
$b = -0.504735 + 0.459395I$		
$u = 0.356915 + 0.631268I$		
$a = 1.53034 + 0.20503I$	$1.18596 + 3.26458I$	$-1.45850 - 1.99046I$
$b = 1.09240 - 1.04252I$		
$u = 0.356915 - 0.631268I$		
$a = 1.53034 - 0.20503I$	$1.18596 - 3.26458I$	$-1.45850 + 1.99046I$
$b = 1.09240 + 1.04252I$		
$u = -0.392543 + 0.607402I$		
$a = 2.18891 + 0.36222I$	$0.807086 - 0.669632I$	$8.89402 + 2.39156I$
$b = 1.47244 + 0.19125I$		
$u = -0.392543 - 0.607402I$		
$a = 2.18891 - 0.36222I$	$0.807086 + 0.669632I$	$8.89402 - 2.39156I$
$b = 1.47244 - 0.19125I$		
$u = -1.144970 + 0.579395I$		
$a = 0.80012 + 1.81003I$	$2.68875 + 12.72060I$	0
$b = -1.64124 + 1.85982I$		
$u = -1.144970 - 0.579395I$		
$a = 0.80012 - 1.81003I$	$2.68875 - 12.72060I$	0
$b = -1.64124 - 1.85982I$		
$u = 0.451622 + 0.549105I$		
$a = -0.816243 - 0.354677I$	$1.58137 - 1.99121I$	$0.23530 + 4.86768I$
$b = -0.570145 + 1.029060I$		
$u = 0.451622 - 0.549105I$		
$a = -0.816243 + 0.354677I$	$1.58137 + 1.99121I$	$0.23530 - 4.86768I$
$b = -0.570145 - 1.029060I$		
$u = -1.143830 + 0.597208I$		
$a = -0.33479 - 1.42337I$	$1.04273 + 7.89242I$	0
$b = 1.46668 - 1.35519I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.143830 - 0.597208I$		
$a = -0.33479 + 1.42337I$	$1.04273 - 7.89242I$	0
$b = 1.46668 + 1.35519I$		
$u = 1.253100 + 0.355708I$		
$a = 0.867905 + 0.120534I$	$-1.49310 - 2.16005I$	0
$b = 0.477864 - 0.951677I$		
$u = 1.253100 - 0.355708I$		
$a = 0.867905 - 0.120534I$	$-1.49310 + 2.16005I$	0
$b = 0.477864 + 0.951677I$		
$u = 1.118380 + 0.672325I$		
$a = 0.01056 - 1.46218I$	$3.33228 - 9.78419I$	0
$b = -1.57916 - 0.92809I$		
$u = 1.118380 - 0.672325I$		
$a = 0.01056 + 1.46218I$	$3.33228 + 9.78419I$	0
$b = -1.57916 + 0.92809I$		
$u = 1.155800 + 0.609147I$		
$a = -0.52062 + 1.87681I$	$7.3617 - 19.0862I$	0
$b = 1.80637 + 1.75057I$		
$u = 1.155800 - 0.609147I$		
$a = -0.52062 - 1.87681I$	$7.3617 + 19.0862I$	0
$b = 1.80637 - 1.75057I$		
$u = -1.258900 + 0.501380I$		
$a = -0.700011 - 0.506248I$	$-0.46524 + 7.38731I$	0
$b = 0.260037 - 1.194030I$		
$u = -1.258900 - 0.501380I$		
$a = -0.700011 + 0.506248I$	$-0.46524 - 7.38731I$	0
$b = 0.260037 + 1.194030I$		
$u = -0.390776 + 0.507703I$		
$a = -1.45495 - 0.56596I$	$1.51459 - 0.44779I$	$6.65638 + 0.77042I$
$b = -0.284838 - 0.272662I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.390776 - 0.507703I$		
$a = -1.45495 + 0.56596I$	$1.51459 + 0.44779I$	$6.65638 - 0.77042I$
$b = -0.284838 + 0.272662I$		
$u = 0.022899 + 0.558695I$		
$a = 1.077830 + 0.890973I$	$-1.49976 - 1.00247I$	$-5.82785 + 2.83454I$
$b = 0.824747 + 0.478628I$		
$u = 0.022899 - 0.558695I$		
$a = 1.077830 - 0.890973I$	$-1.49976 + 1.00247I$	$-5.82785 - 2.83454I$
$b = 0.824747 - 0.478628I$		

$$I_2^u = \langle 4u^{34} + 7u^{33} + \dots + b - 5, \ -3u^{34} - 2u^{33} + \dots + a + 2, \ u^{35} + 2u^{34} + \dots - 2u - 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_2 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^2 \end{pmatrix} \\ a_7 &= \begin{pmatrix} u^5 - 2u^3 + u \\ u^5 - u^3 + u \end{pmatrix} \\ a_5 &= \begin{pmatrix} u \\ -u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 3u^{34} + 2u^{33} + \dots - 5u - 2 \\ -4u^{34} - 7u^{33} + \dots - 2u + 5 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 5u^{34} + 5u^{33} + \dots - 6u - 4 \\ -2u^{34} - 5u^{33} + \dots - 3u + 4 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -4u^{34} + 2u^{33} + \dots + 6u - 4 \\ 5u^{34} + 8u^{33} + \dots + 40u^2 - 7 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -6u^{34} - 12u^{33} + \dots + 6u + 13 \\ -13u^{34} - 13u^{33} + \dots + 14u + 7 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 9u^{34} + 13u^{33} + \dots - 7u - 12 \\ -3u^{33} - 4u^{32} + \dots - 7u + 1 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -12u^{34} - 18u^{33} + \dots + 13u + 19 \\ -11u^{34} - 13u^{33} + \dots + 11u + 8 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$\begin{aligned} &= 3u^{34} + 20u^{33} - 7u^{32} - 160u^{31} - 64u^{30} + 621u^{29} + 474u^{28} - 1464u^{27} - 1606u^{26} + \\ &2192u^{25} + 3499u^{24} - 1803u^{23} - 5407u^{22} - 215u^{21} + 6133u^{20} + 3021u^{19} - 5057u^{18} - \\ &5009u^{17} + 2688u^{16} + 5339u^{15} - 207u^{14} - 4379u^{13} - 1374u^{12} + 2925u^{11} + 1734u^{10} - \\ &1546u^9 - 1271u^8 + 573u^7 + 656u^6 - 102u^5 - 254u^4 - 25u^3 + 70u^2 + 17u - 7 \end{aligned}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{35} - 18u^{34} + \cdots + 12u - 1$
c_2	$u^{35} + 2u^{34} + \cdots - 2u - 1$
c_3	$u^{35} - u^{34} + \cdots + u + 1$
c_4	$u^{35} - 3u^{34} + \cdots - 5u + 1$
c_5	$u^{35} - 2u^{34} + \cdots - 2u + 1$
c_6	$u^{35} - 6u^{34} + \cdots - 4u + 1$
c_7	$u^{35} + 13u^{34} + \cdots + 13u + 1$
c_8	$u^{35} + 3u^{34} + \cdots - 5u - 1$
c_9	$u^{35} - 6u^{34} + \cdots + 6u - 1$
c_{10}	$u^{35} + u^{34} + \cdots + u - 1$
c_{11}	$u^{35} + u^{34} + \cdots + 2u - 1$
c_{12}	$u^{35} + 6u^{34} + \cdots + 6u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{35} + 2y^{34} + \cdots - 8y - 1$
c_2, c_5	$y^{35} - 18y^{34} + \cdots + 12y - 1$
c_3, c_{10}	$y^{35} + 23y^{34} + \cdots - 13y - 1$
c_4, c_8	$y^{35} - 37y^{34} + \cdots + 17y - 1$
c_6	$y^{35} + 14y^{34} + \cdots + 74y^2 - 1$
c_7	$y^{35} - 9y^{34} + \cdots + 29y - 1$
c_9, c_{12}	$y^{35} + 22y^{34} + \cdots - 18y - 1$
c_{11}	$y^{35} - 5y^{34} + \cdots - 34y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.449369 + 0.898502I$		
$a = -1.110200 - 0.295377I$	$3.70649 - 3.34500I$	$2.74211 + 6.90028I$
$b = -0.896959 - 0.890229I$		
$u = -0.449369 - 0.898502I$		
$a = -1.110200 + 0.295377I$	$3.70649 + 3.34500I$	$2.74211 - 6.90028I$
$b = -0.896959 + 0.890229I$		
$u = 1.010410 + 0.175150I$		
$a = -0.238179 + 1.250430I$	$-1.75961 + 1.63791I$	$-2.51606 - 1.84050I$
$b = 0.626124 + 0.416942I$		
$u = 1.010410 - 0.175150I$		
$a = -0.238179 - 1.250430I$	$-1.75961 - 1.63791I$	$-2.51606 + 1.84050I$
$b = 0.626124 - 0.416942I$		
$u = -0.192206 + 0.951147I$		
$a = -0.219742 - 0.160230I$	$2.14913 - 1.40179I$	$-4.53646 + 2.43995I$
$b = -0.074720 + 0.297541I$		
$u = -0.192206 - 0.951147I$		
$a = -0.219742 + 0.160230I$	$2.14913 + 1.40179I$	$-4.53646 - 2.43995I$
$b = -0.074720 - 0.297541I$		
$u = -1.014930 + 0.374470I$		
$a = -1.29182 + 1.96382I$	$3.49468 - 1.38652I$	$-3.72020 + 2.10391I$
$b = -2.64183 - 0.46406I$		
$u = -1.014930 - 0.374470I$		
$a = -1.29182 - 1.96382I$	$3.49468 + 1.38652I$	$-3.72020 - 2.10391I$
$b = -2.64183 + 0.46406I$		
$u = -0.996058 + 0.458165I$		
$a = -0.103645 + 0.336403I$	$7.15053 + 1.30099I$	$2.08686 - 1.88043I$
$b = -1.95660 - 0.35708I$		
$u = -0.996058 - 0.458165I$		
$a = -0.103645 - 0.336403I$	$7.15053 - 1.30099I$	$2.08686 + 1.88043I$
$b = -1.95660 + 0.35708I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.006900 + 0.497557I$	$7.44041 - 4.56762I$	$2.73556 + 6.57357I$
$a = -0.223255 - 1.378620I$		
$b = -0.057991 - 0.961392I$		
$u = 1.006900 - 0.497557I$	$7.44041 + 4.56762I$	$2.73556 - 6.57357I$
$a = -0.223255 + 1.378620I$		
$b = -0.057991 + 0.961392I$		
$u = 0.544307 + 0.669422I$	$6.51161 + 2.95580I$	$7.14645 - 4.00467I$
$a = 2.39954 - 0.29392I$		
$b = 1.32687 - 1.45521I$		
$u = 0.544307 - 0.669422I$	$6.51161 - 2.95580I$	$7.14645 + 4.00467I$
$a = 2.39954 + 0.29392I$		
$b = 1.32687 + 1.45521I$		
$u = 1.088390 + 0.375965I$	$-2.98962 - 2.46227I$	$-4.95258 + 4.56593I$
$a = -0.083784 + 0.890656I$		
$b = 1.46987 + 0.04042I$		
$u = 1.088390 - 0.375965I$	$-2.98962 + 2.46227I$	$-4.95258 - 4.56593I$
$a = -0.083784 - 0.890656I$		
$b = 1.46987 - 0.04042I$		
$u = 0.639424 + 0.490668I$	$8.64821 + 0.48732I$	$6.29202 - 0.07140I$
$a = 1.82886 + 0.22400I$		
$b = -0.076616 + 0.157585I$		
$u = 0.639424 - 0.490668I$	$8.64821 - 0.48732I$	$6.29202 + 0.07140I$
$a = 1.82886 - 0.22400I$		
$b = -0.076616 - 0.157585I$		
$u = 1.059290 + 0.560379I$	$4.89620 - 7.75104I$	$1.45717 + 8.60266I$
$a = 0.56557 - 2.32838I$		
$b = -2.05401 - 2.02252I$		
$u = 1.059290 - 0.560379I$	$4.89620 + 7.75104I$	$1.45717 - 8.60266I$
$a = 0.56557 + 2.32838I$		
$b = -2.05401 + 2.02252I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.090060 + 0.511998I$		
$a = -0.02057 - 1.80947I$	$-2.02615 + 4.71468I$	$-4.99057 - 3.42368I$
$b = 1.30444 - 0.74848I$		
$u = -1.090060 - 0.511998I$		
$a = -0.02057 + 1.80947I$	$-2.02615 - 4.71468I$	$-4.99057 + 3.42368I$
$b = 1.30444 + 0.74848I$		
$u = -0.683002 + 0.402288I$		
$a = -0.568125 - 0.589675I$	$8.24806 + 2.36497I$	$5.11886 - 3.46260I$
$b = 1.41680 + 0.76512I$		
$u = -0.683002 - 0.402288I$		
$a = -0.568125 + 0.589675I$	$8.24806 - 2.36497I$	$5.11886 + 3.46260I$
$b = 1.41680 - 0.76512I$		
$u = 1.177930 + 0.296852I$		
$a = -0.301713 - 0.029308I$	$-2.63916 - 2.34984I$	$-7.91591 + 2.86774I$
$b = 0.506002 + 0.231271I$		
$u = 1.177930 - 0.296852I$		
$a = -0.301713 + 0.029308I$	$-2.63916 + 2.34984I$	$-7.91591 - 2.86774I$
$b = 0.506002 - 0.231271I$		
$u = -0.741427 + 0.239127I$		
$a = 0.39173 - 2.28162I$	$4.65599 + 4.15432I$	$0.53542 - 2.48270I$
$b = 1.78561 - 0.01141I$		
$u = -0.741427 - 0.239127I$		
$a = 0.39173 + 2.28162I$	$4.65599 - 4.15432I$	$0.53542 + 2.48270I$
$b = 1.78561 + 0.01141I$		
$u = -1.136130 + 0.619981I$		
$a = -0.200361 - 1.275210I$	$1.54325 + 8.92726I$	$1.19351 - 8.93789I$
$b = 1.51537 - 1.04651I$		
$u = -1.136130 - 0.619981I$		
$a = -0.200361 + 1.275210I$	$1.54325 - 8.92726I$	$1.19351 + 8.93789I$
$b = 1.51537 + 1.04651I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.220220 + 0.517846I$		
$a = 0.170515 - 0.298998I$	$-1.13336 + 6.63370I$	$-3.91761 - 3.85524I$
$b = -0.0415555 - 0.0757451I$		
$u = -1.220220 - 0.517846I$		
$a = 0.170515 + 0.298998I$	$-1.13336 - 6.63370I$	$-3.91761 + 3.85524I$
$b = -0.0415555 + 0.0757451I$		
$u = 0.646098$		
$a = -0.0548820$	-0.661557	6.22930
$b = -1.22335$		
$u = -0.326293 + 0.536744I$		
$a = -1.96738 - 0.75045I$	$0.137208 - 0.387332I$	$-2.37322 - 1.38221I$
$b = -1.039130 - 0.285726I$		
$u = -0.326293 - 0.536744I$		
$a = -1.96738 + 0.75045I$	$0.137208 + 0.387332I$	$-2.37322 + 1.38221I$
$b = -1.039130 + 0.285726I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{35} - 18u^{34} + \dots + 12u - 1)(u^{143} + 69u^{142} + \dots + 24038u + 2209)$
c_2	$(u^{35} + 2u^{34} + \dots - 2u - 1)(u^{143} + 3u^{142} + \dots + 110u + 47)$
c_3	$(u^{35} - u^{34} + \dots + u + 1)(u^{143} + 2u^{142} + \dots + 22312u + 8024)$
c_4	$(u^{35} - 3u^{34} + \dots - 5u + 1)$ $\cdot (u^{143} - 60u^{141} + \dots + 6466443u + 1229681)$
c_5	$(u^{35} - 2u^{34} + \dots - 2u + 1)(u^{143} + 3u^{142} + \dots + 110u + 47)$
c_6	$(u^{35} - 6u^{34} + \dots - 4u + 1)(u^{143} + 9u^{142} + \dots + 1198600u + 745279)$
c_7	$(u^{35} + 13u^{34} + \dots + 13u + 1)$ $\cdot (u^{143} + 6u^{142} + \dots + 586376963u + 10200841)$
c_8	$(u^{35} + 3u^{34} + \dots - 5u - 1)$ $\cdot (u^{143} - 60u^{141} + \dots + 6466443u + 1229681)$
c_9	$(u^{35} - 6u^{34} + \dots + 6u - 1)(u^{143} - 7u^{142} + \dots - 220108u + 19079)$
c_{10}	$(u^{35} + u^{34} + \dots + u - 1)(u^{143} + 2u^{142} + \dots + 22312u + 8024)$
c_{11}	$(u^{35} + u^{34} + \dots + 2u - 1)(u^{143} - 2u^{142} + \dots + 111690u + 3457)$
c_{12}	$(u^{35} + 6u^{34} + \dots + 6u + 1)(u^{143} - 7u^{142} + \dots - 220108u + 19079)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{35} + 2y^{34} + \dots - 8y - 1)$ $\cdot (y^{143} + 15y^{142} + \dots - 116759262y - 4879681)$
c_2, c_5	$(y^{35} - 18y^{34} + \dots + 12y - 1)(y^{143} - 69y^{142} + \dots + 24038y - 2209)$
c_3, c_{10}	$(y^{35} + 23y^{34} + \dots - 13y - 1)$ $\cdot (y^{143} + 100y^{142} + \dots - 1978348960y - 64384576)$
c_4, c_8	$(y^{35} - 37y^{34} + \dots + 17y - 1)$ $\cdot (y^{143} - 120y^{142} + \dots + 46027317196279y - 1512115361761)$
c_6	$(y^{35} + 14y^{34} + \dots + 74y^2 - 1)$ $\cdot (y^{143} + 39y^{142} + \dots - 20746243156102y - 555440787841)$
c_7	$(y^{35} - 9y^{34} + \dots + 29y - 1)$ $\cdot (y^{143} - 64y^{142} + \dots + 259743448139619271y - 104057157107281)$
c_9, c_{12}	$(y^{35} + 22y^{34} + \dots - 18y - 1)$ $\cdot (y^{143} + 95y^{142} + \dots - 14790500680y - 364008241)$
c_{11}	$(y^{35} - 5y^{34} + \dots - 34y - 1)$ $\cdot (y^{143} - 32y^{142} + \dots - 2418099900y - 11950849)$