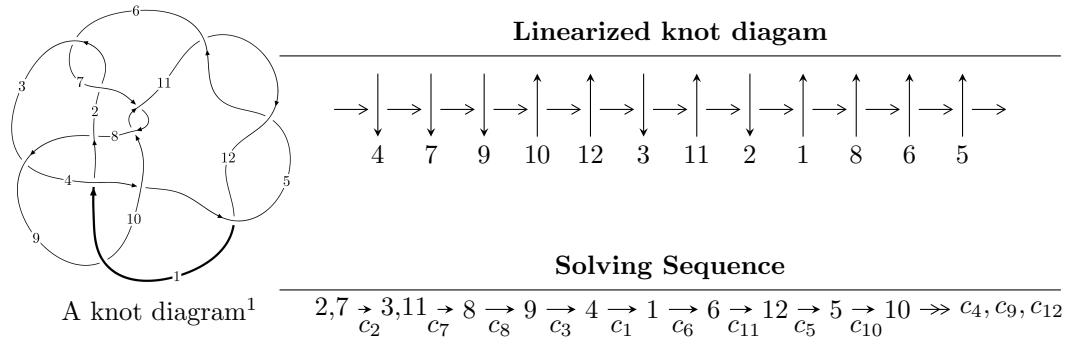


$12a_{1055}$ ($K12a_{1055}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -2.17270 \times 10^{674} u^{143} + 1.84276 \times 10^{675} u^{142} + \dots + 2.58449 \times 10^{677} b + 5.69888 \times 10^{678}, \\ 5.38072 \times 10^{678} u^{143} + 8.23180 \times 10^{678} u^{142} + \dots + 2.55606 \times 10^{680} a - 2.46598 \times 10^{681}, \\ u^{144} + u^{143} + \dots - 5896u + 989 \rangle$$

$$I_2^u = \langle 2.35537 \times 10^{30} u^{39} + 1.05919 \times 10^{30} u^{38} + \dots + 2.44460 \times 10^{29} b - 7.09475 \times 10^{30}, \\ - 7.27177 \times 10^{30} u^{39} - 1.23813 \times 10^{31} u^{38} + \dots + 2.44460 \times 10^{29} a + 2.34572 \times 10^{30}, u^{40} + 2u^{39} + \dots + 2u + \dots \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 184 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.

$$\text{I. } I_1^u = \langle -2.17 \times 10^{674} u^{143} + 1.84 \times 10^{675} u^{142} + \dots + 2.58 \times 10^{677} b + 5.70 \times 10^{678}, 5.38 \times 10^{678} u^{143} + 8.23 \times 10^{678} u^{142} + \dots + 2.56 \times 10^{680} a - 2.47 \times 10^{681}, u^{144} + u^{143} + \dots - 5896u + 989 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_2 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_3 &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -0.0210508u^{143} - 0.0322050u^{142} + \dots - 109.801u + 9.64757 \\ 0.000840669u^{143} - 0.00713005u^{142} + \dots + 103.422u - 22.0503 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.0253537u^{143} + 0.0104650u^{142} + \dots + 455.891u - 94.6977 \\ 0.00283709u^{143} + 0.00148924u^{142} + \dots + 18.9687u - 4.22269 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0.0225166u^{143} + 0.00897573u^{142} + \dots + 436.922u - 90.4750 \\ 0.00283709u^{143} + 0.00148924u^{142} + \dots + 18.9687u - 4.22269 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -0.0196348u^{143} - 0.0664906u^{142} + \dots + 301.113u - 86.8414 \\ -0.0258564u^{143} - 0.0394073u^{142} + \dots - 111.551u + 11.5497 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.0676036u^{143} - 0.105365u^{142} + \dots - 317.722u + 28.5588 \\ -0.00635388u^{143} + 0.00430054u^{142} + \dots - 146.861u + 30.0276 \end{pmatrix} \\ a_6 &= \begin{pmatrix} u \\ u^3 + u \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -0.0281418u^{143} - 0.0439491u^{142} + \dots - 131.963u + 9.36949 \\ -0.00598204u^{143} - 0.0163303u^{142} + \dots + 60.8374u - 17.7264 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -0.0195811u^{143} + 0.00160936u^{142} + \dots - 476.589u + 101.810 \\ -0.000614508u^{143} + 0.000419443u^{142} + \dots - 14.7609u + 5.86952 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 0.0796632u^{143} + 0.130380u^{142} + \dots + 238.971u - 3.85049 \\ 0.0103227u^{143} + 0.00404013u^{142} + \dots + 172.885u - 34.7918 \end{pmatrix} \end{aligned}$$

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

(iii) **Cusp Shapes** = $0.0628033u^{143} + 0.00950011u^{142} + \dots + 1209.64u - 250.992$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{144} - 5u^{143} + \cdots - 106u + 17$
c_2, c_6	$u^{144} - u^{143} + \cdots + 5896u + 989$
c_3	$u^{144} + u^{143} + \cdots - 431616u + 85504$
c_4	$u^{144} - u^{143} + \cdots + 545u + 307$
c_5, c_{11}, c_{12}	$u^{144} - u^{143} + \cdots + 2435u + 193$
c_7, c_{10}	$u^{144} - 7u^{143} + \cdots + 126358u + 11033$
c_8	$u^{144} + u^{143} + \cdots + 222158u + 28393$
c_9	$u^{144} - 3u^{143} + \cdots - 94488u + 22681$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{144} + 17y^{143} + \dots + 8926y + 289$
c_2, c_6	$y^{144} + 65y^{143} + \dots + 23149068y + 978121$
c_3	$y^{144} - 5y^{143} + \dots - 279517724672y + 7310934016$
c_4	$y^{144} + 51y^{143} + \dots + 4212805y + 94249$
c_5, c_{11}, c_{12}	$y^{144} + 161y^{143} + \dots + 3654383y + 37249$
c_7, c_{10}	$y^{144} + 87y^{143} + \dots + 4474494936y + 121727089$
c_8	$y^{144} + 25y^{143} + \dots + 51876294512y + 806162449$
c_9	$y^{144} + 37y^{143} + \dots + 31337234260y + 514427761$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.517855 + 0.858761I$		
$a = 1.07131 - 1.17568I$	$-1.32577 - 2.09615I$	0
$b = 0.422535 - 0.489625I$		
$u = 0.517855 - 0.858761I$		
$a = 1.07131 + 1.17568I$	$-1.32577 + 2.09615I$	0
$b = 0.422535 + 0.489625I$		
$u = -0.355540 + 0.926995I$		
$a = -0.92831 - 1.29737I$	$-2.00130 + 1.43707I$	0
$b = 0.284858 - 0.363499I$		
$u = -0.355540 - 0.926995I$		
$a = -0.92831 + 1.29737I$	$-2.00130 - 1.43707I$	0
$b = 0.284858 + 0.363499I$		
$u = -0.228469 + 0.962555I$		
$a = -0.523580 - 1.184250I$	$4.12127 + 0.74656I$	0
$b = -0.509620 - 0.276973I$		
$u = -0.228469 - 0.962555I$		
$a = -0.523580 + 1.184250I$	$4.12127 - 0.74656I$	0
$b = -0.509620 + 0.276973I$		
$u = 0.063001 + 1.022290I$		
$a = 0.375022 - 1.209370I$	$4.32694 + 0.06920I$	0
$b = -0.184033 - 0.290733I$		
$u = 0.063001 - 1.022290I$		
$a = 0.375022 + 1.209370I$	$4.32694 - 0.06920I$	0
$b = -0.184033 + 0.290733I$		
$u = -0.424519 + 0.872191I$		
$a = 0.956076 - 0.683640I$	$-3.24788 + 4.70970I$	0
$b = -0.09268 - 2.12496I$		
$u = -0.424519 - 0.872191I$		
$a = 0.956076 + 0.683640I$	$-3.24788 - 4.70970I$	0
$b = -0.09268 + 2.12496I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.427690 + 0.843847I$		
$a = -1.149220 + 0.698741I$	$-3.33926 - 1.12138I$	0
$b = 1.25378 + 1.49091I$		
$u = -0.427690 - 0.843847I$		
$a = -1.149220 - 0.698741I$	$-3.33926 + 1.12138I$	0
$b = 1.25378 - 1.49091I$		
$u = -1.013940 + 0.328197I$		
$a = 0.700021 - 0.866564I$	$-3.04638 - 8.74887I$	0
$b = -0.01062 - 1.73100I$		
$u = -1.013940 - 0.328197I$		
$a = 0.700021 + 0.866564I$	$-3.04638 + 8.74887I$	0
$b = -0.01062 + 1.73100I$		
$u = 1.027860 + 0.283936I$		
$a = -0.400907 - 0.889539I$	$-4.61579 + 0.14727I$	0
$b = 0.36679 - 1.72986I$		
$u = 1.027860 - 0.283936I$		
$a = -0.400907 + 0.889539I$	$-4.61579 - 0.14727I$	0
$b = 0.36679 + 1.72986I$		
$u = -0.442077 + 0.972988I$		
$a = 1.158990 - 0.636061I$	$-2.97543 + 5.01417I$	0
$b = -1.026780 - 0.947011I$		
$u = -0.442077 - 0.972988I$		
$a = 1.158990 + 0.636061I$	$-2.97543 - 5.01417I$	0
$b = -1.026780 + 0.947011I$		
$u = 1.000520 + 0.384416I$		
$a = 0.84725 + 1.13480I$	$-7.85810 + 4.18783I$	0
$b = 0.11867 + 1.47304I$		
$u = 1.000520 - 0.384416I$		
$a = 0.84725 - 1.13480I$	$-7.85810 - 4.18783I$	0
$b = 0.11867 - 1.47304I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.633669 + 0.876521I$		
$a = 0.299556 - 0.921499I$	$1.75567 + 4.34220I$	0
$b = -1.00999 - 1.36150I$		
$u = -0.633669 - 0.876521I$		
$a = 0.299556 + 0.921499I$	$1.75567 - 4.34220I$	0
$b = -1.00999 + 1.36150I$		
$u = -0.708842 + 0.572621I$		
$a = 1.30572 - 0.88155I$	$-10.40510 + 0.69580I$	0
$b = -0.339536 - 0.635963I$		
$u = -0.708842 - 0.572621I$		
$a = 1.30572 + 0.88155I$	$-10.40510 - 0.69580I$	0
$b = -0.339536 + 0.635963I$		
$u = 0.610838 + 0.902898I$		
$a = 0.715158 + 0.400766I$	$-0.92355 - 1.16423I$	0
$b = 0.03549 + 1.68791I$		
$u = 0.610838 - 0.902898I$		
$a = 0.715158 - 0.400766I$	$-0.92355 + 1.16423I$	0
$b = 0.03549 - 1.68791I$		
$u = 0.560258 + 0.696446I$		
$a = -0.570660 - 0.624073I$	$-0.96818 - 1.42189I$	0
$b = 1.002330 - 0.488793I$		
$u = 0.560258 - 0.696446I$		
$a = -0.570660 + 0.624073I$	$-0.96818 + 1.42189I$	0
$b = 1.002330 + 0.488793I$		
$u = -0.303732 + 1.066140I$		
$a = -0.733376 - 0.446451I$	$2.36848 - 0.79913I$	0
$b = -0.088832 + 0.426032I$		
$u = -0.303732 - 1.066140I$		
$a = -0.733376 + 0.446451I$	$2.36848 + 0.79913I$	0
$b = -0.088832 - 0.426032I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.266885 + 1.078750I$		
$a = -0.276052 + 0.400419I$	$1.10377 - 2.05634I$	0
$b = 0.076490 + 0.488818I$		
$u = 0.266885 - 1.078750I$		
$a = -0.276052 - 0.400419I$	$1.10377 + 2.05634I$	0
$b = 0.076490 - 0.488818I$		
$u = -0.456686 + 0.759218I$		
$a = -0.931926 + 1.023090I$	$-3.62940 - 1.30889I$	0
$b = -0.14489 + 1.45922I$		
$u = -0.456686 - 0.759218I$		
$a = -0.931926 - 1.023090I$	$-3.62940 + 1.30889I$	0
$b = -0.14489 - 1.45922I$		
$u = 0.125732 + 1.107930I$		
$a = 0.837788 + 0.386447I$	$-1.85603 + 5.07461I$	0
$b = -1.47232 + 0.33107I$		
$u = 0.125732 - 1.107930I$		
$a = 0.837788 - 0.386447I$	$-1.85603 - 5.07461I$	0
$b = -1.47232 - 0.33107I$		
$u = 0.494450 + 0.726951I$		
$a = -0.85345 - 1.22710I$	$-1.60214 - 3.42664I$	0
$b = 1.39694 - 1.24451I$		
$u = 0.494450 - 0.726951I$		
$a = -0.85345 + 1.22710I$	$-1.60214 + 3.42664I$	0
$b = 1.39694 + 1.24451I$		
$u = 0.127020 + 1.114490I$		
$a = 0.455851 - 0.633263I$	$1.16957 + 1.11750I$	0
$b = 1.097710 + 0.273582I$		
$u = 0.127020 - 1.114490I$		
$a = 0.455851 + 0.633263I$	$1.16957 - 1.11750I$	0
$b = 1.097710 - 0.273582I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.168145 + 1.127140I$		
$a = -0.158159 - 0.844049I$	$3.53079 - 2.66328I$	0
$b = -0.125944 - 0.188979I$		
$u = 0.168145 - 1.127140I$		
$a = -0.158159 + 0.844049I$	$3.53079 + 2.66328I$	0
$b = -0.125944 + 0.188979I$		
$u = 0.700144 + 0.900884I$		
$a = 1.145280 - 0.297858I$	$-3.29013 + 0.66050I$	0
$b = 0.146788 + 0.452565I$		
$u = 0.700144 - 0.900884I$		
$a = 1.145280 + 0.297858I$	$-3.29013 - 0.66050I$	0
$b = 0.146788 - 0.452565I$		
$u = -0.390874 + 1.081960I$		
$a = 0.750270 - 0.412185I$	$-6.93969 + 2.57610I$	0
$b = 0.96387 - 1.56771I$		
$u = -0.390874 - 1.081960I$		
$a = 0.750270 + 0.412185I$	$-6.93969 - 2.57610I$	0
$b = 0.96387 + 1.56771I$		
$u = 0.482016 + 1.049150I$		
$a = 0.858899 + 0.746632I$	$0.24985 - 7.82066I$	0
$b = -1.51305 + 1.73571I$		
$u = 0.482016 - 1.049150I$		
$a = 0.858899 - 0.746632I$	$0.24985 + 7.82066I$	0
$b = -1.51305 - 1.73571I$		
$u = -1.131750 + 0.241574I$		
$a = 0.100307 - 1.130640I$	$-10.25730 + 3.14256I$	0
$b = -0.678773 - 1.219620I$		
$u = -1.131750 - 0.241574I$		
$a = 0.100307 + 1.130640I$	$-10.25730 - 3.14256I$	0
$b = -0.678773 + 1.219620I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.214027 + 0.813486I$		
$a = 1.10150 - 1.09864I$	$1.16885 + 3.08474I$	0
$b = -0.814823 - 1.152660I$		
$u = -0.214027 - 0.813486I$		
$a = 1.10150 + 1.09864I$	$1.16885 - 3.08474I$	0
$b = -0.814823 + 1.152660I$		
$u = -0.649790 + 0.510668I$		
$a = 0.773497 + 0.135585I$	$-7.21083 - 0.39117I$	0
$b = -0.186296 + 0.931616I$		
$u = -0.649790 - 0.510668I$		
$a = 0.773497 - 0.135585I$	$-7.21083 + 0.39117I$	0
$b = -0.186296 - 0.931616I$		
$u = -0.579659 + 1.036620I$		
$a = 0.742083 - 1.006530I$	$0.33040 + 7.23718I$	0
$b = -1.06629 - 1.75122I$		
$u = -0.579659 - 1.036620I$		
$a = 0.742083 + 1.006530I$	$0.33040 - 7.23718I$	0
$b = -1.06629 + 1.75122I$		
$u = -0.608949 + 1.025090I$		
$a = 0.555994 + 0.603439I$	$-5.72956 + 5.36982I$	0
$b = -0.091363 + 0.327585I$		
$u = -0.608949 - 1.025090I$		
$a = 0.555994 - 0.603439I$	$-5.72956 - 5.36982I$	0
$b = -0.091363 - 0.327585I$		
$u = -0.436203 + 1.112580I$		
$a = -0.541794 + 0.639987I$	$2.76565 - 0.81161I$	0
$b = 1.04481 + 1.09676I$		
$u = -0.436203 - 1.112580I$		
$a = -0.541794 - 0.639987I$	$2.76565 + 0.81161I$	0
$b = 1.04481 - 1.09676I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.613093 + 0.516769I$	$-1.18560 - 2.48718I$	0
$a = -1.17848 + 0.78233I$		
$b = 0.04086 + 1.47264I$		
$u = -0.613093 - 0.516769I$	$-1.18560 + 2.48718I$	0
$a = -1.17848 - 0.78233I$		
$b = 0.04086 - 1.47264I$		
$u = 0.575581 + 1.054390I$	$-4.32792 - 12.04850I$	0
$a = -0.750827 + 0.918826I$		
$b = -0.207997 + 0.084971I$		
$u = 0.575581 - 1.054390I$	$-4.32792 + 12.04850I$	0
$a = -0.750827 - 0.918826I$		
$b = -0.207997 - 0.084971I$		
$u = 0.814552 + 0.918703I$	$-3.37246 - 6.44630I$	0
$a = 0.010307 - 1.024020I$		
$b = 0.74676 - 1.67595I$		
$u = 0.814552 - 0.918703I$	$-3.37246 + 6.44630I$	0
$a = 0.010307 + 1.024020I$		
$b = 0.74676 + 1.67595I$		
$u = 0.573243 + 0.511294I$	$-5.97031 + 7.35454I$	0
$a = -1.154820 + 0.608881I$		
$b = -0.199791 + 1.255340I$		
$u = 0.573243 - 0.511294I$	$-5.97031 - 7.35454I$	0
$a = -1.154820 - 0.608881I$		
$b = -0.199791 - 1.255340I$		
$u = 0.448637 + 1.149920I$	$1.30780 - 6.55447I$	0
$a = -0.735635 - 0.876913I$		
$b = 0.75668 - 1.20545I$		
$u = 0.448637 - 1.149920I$	$1.30780 + 6.55447I$	0
$a = -0.735635 + 0.876913I$		
$b = 0.75668 + 1.20545I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.505675 + 1.126910I$		
$a = 0.854993 + 0.881546I$	$-9.64904 + 1.20544I$	0
$b = 0.07486 + 1.46044I$		
$u = 0.505675 - 1.126910I$		
$a = 0.854993 - 0.881546I$	$-9.64904 - 1.20544I$	0
$b = 0.07486 - 1.46044I$		
$u = -0.625956 + 1.065260I$		
$a = -0.464025 + 0.929483I$	$-8.88424 + 4.46607I$	0
$b = 0.04685 + 1.50346I$		
$u = -0.625956 - 1.065260I$		
$a = -0.464025 - 0.929483I$	$-8.88424 - 4.46607I$	0
$b = 0.04685 - 1.50346I$		
$u = 0.415061 + 1.164620I$		
$a = -0.808416 + 0.297906I$	$0.541665 + 0.674438I$	0
$b = 0.578523 - 0.123155I$		
$u = 0.415061 - 1.164620I$		
$a = -0.808416 - 0.297906I$	$0.541665 - 0.674438I$	0
$b = 0.578523 + 0.123155I$		
$u = -0.391320 + 1.176750I$		
$a = 0.419634 + 0.768388I$	$3.12719 + 8.75276I$	0
$b = 0.281154 + 0.101537I$		
$u = -0.391320 - 1.176750I$		
$a = 0.419634 - 0.768388I$	$3.12719 - 8.75276I$	0
$b = 0.281154 - 0.101537I$		
$u = 0.529117 + 0.515088I$		
$a = 0.17738 + 1.41004I$	$-1.80834 - 4.97274I$	0
$b = 0.07309 + 1.65251I$		
$u = 0.529117 - 0.515088I$		
$a = 0.17738 - 1.41004I$	$-1.80834 + 4.97274I$	0
$b = 0.07309 - 1.65251I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.552350 + 1.142960I$ $a = -0.842810 - 0.662161I$ $b = -0.16534 - 1.82352I$	$-10.03460 - 9.32684I$	0
$u = 0.552350 - 1.142960I$ $a = -0.842810 + 0.662161I$ $b = -0.16534 + 1.82352I$	$-10.03460 + 9.32684I$	0
$u = -0.249519 + 0.685647I$ $a = -1.81767 + 0.54432I$ $b = 1.85314 + 0.14047I$	$-8.55206 + 0.30724I$	0
$u = -0.249519 - 0.685647I$ $a = -1.81767 - 0.54432I$ $b = 1.85314 - 0.14047I$	$-8.55206 - 0.30724I$	0
$u = -0.544172 + 1.165270I$ $a = -0.373268 - 0.595968I$ $b = 0.341746 - 0.006999I$	$-3.71802 + 3.39018I$	0
$u = -0.544172 - 1.165270I$ $a = -0.373268 + 0.595968I$ $b = 0.341746 + 0.006999I$	$-3.71802 - 3.39018I$	0
$u = -1.295510 + 0.079139I$ $a = -0.050953 + 0.456006I$ $b = -0.18642 + 2.25352I$	$-7.70149 - 1.28594I$	0
$u = -1.295510 - 0.079139I$ $a = -0.050953 - 0.456006I$ $b = -0.18642 - 2.25352I$	$-7.70149 + 1.28594I$	0
$u = 0.644292 + 0.276965I$ $a = -0.625586 - 0.286812I$ $b = 0.0650896 - 0.0924493I$	$-1.13811 - 1.22929I$	0
$u = 0.644292 - 0.276965I$ $a = -0.625586 + 0.286812I$ $b = 0.0650896 + 0.0924493I$	$-1.13811 + 1.22929I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.589086 + 1.163640I$	$-1.89596 - 5.69212I$	0
$a = 0.679726 + 0.674196I$		
$b = -0.94054 + 1.88497I$		
$u = 0.589086 - 1.163640I$	$-1.89596 + 5.69212I$	0
$a = 0.679726 - 0.674196I$		
$b = -0.94054 - 1.88497I$		
$u = 0.416142 + 0.544802I$	$-0.94869 - 1.38584I$	$0. + 4.67960I$
$a = -0.526173 - 0.598536I$		
$b = 0.880180 + 0.038644I$		
$u = 0.416142 - 0.544802I$	$-0.94869 + 1.38584I$	$0. - 4.67960I$
$a = -0.526173 + 0.598536I$		
$b = 0.880180 - 0.038644I$		
$u = 0.564918 + 0.383332I$	$-12.34290 + 4.70339I$	$-8.84051 + 0.I$
$a = 1.45545 + 1.93888I$		
$b = -0.708421 + 1.011680I$		
$u = 0.564918 - 0.383332I$	$-12.34290 - 4.70339I$	$-8.84051 + 0.I$
$a = 1.45545 - 1.93888I$		
$b = -0.708421 - 1.011680I$		
$u = 1.279420 + 0.322188I$	$-4.14898 + 0.36457I$	0
$a = 0.265884 + 0.709923I$		
$b = 0.05481 + 1.79871I$		
$u = 1.279420 - 0.322188I$	$-4.14898 - 0.36457I$	0
$a = 0.265884 - 0.709923I$		
$b = 0.05481 - 1.79871I$		
$u = -0.679447 + 0.013049I$	$-0.31375 + 4.79943I$	$1.02873 - 5.75401I$
$a = 0.864948 - 0.181389I$		
$b = 0.387957 - 0.800762I$		
$u = -0.679447 - 0.013049I$	$-0.31375 - 4.79943I$	$1.02873 + 5.75401I$
$a = 0.864948 + 0.181389I$		
$b = 0.387957 + 0.800762I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.343291 + 0.582586I$	$-1.38479 + 4.08308I$	$0. - 2.31629I$
$a = -1.136990 - 0.510742I$		
$b = -0.05655 - 2.15459I$		
$u = 0.343291 - 0.582586I$	$-1.38479 - 4.08308I$	$0. + 2.31629I$
$a = -1.136990 + 0.510742I$		
$b = -0.05655 + 2.15459I$		
$u = 0.724269 + 1.110850I$	$0.27215 - 4.05186I$	0
$a = 0.357258 + 0.703821I$		
$b = -0.60736 + 1.54911I$		
$u = 0.724269 - 1.110850I$	$0.27215 + 4.05186I$	0
$a = 0.357258 - 0.703821I$		
$b = -0.60736 - 1.54911I$		
$u = -0.645742 + 1.189570I$	$-0.4180 + 14.6536I$	0
$a = -0.644003 + 0.838531I$		
$b = 1.15957 + 1.85202I$		
$u = -0.645742 - 1.189570I$	$-0.4180 - 14.6536I$	0
$a = -0.644003 - 0.838531I$		
$b = 1.15957 - 1.85202I$		
$u = 0.216745 + 1.340300I$	$3.89757 - 4.36674I$	0
$a = -0.114024 + 0.270673I$		
$b = -0.450190 + 0.108923I$		
$u = 0.216745 - 1.340300I$	$3.89757 + 4.36674I$	0
$a = -0.114024 - 0.270673I$		
$b = -0.450190 - 0.108923I$		
$u = 0.679467 + 1.184370I$	$-5.42868 - 10.24140I$	0
$a = -0.685854 - 1.021870I$		
$b = 0.74889 - 1.82687I$		
$u = 0.679467 - 1.184370I$	$-5.42868 + 10.24140I$	0
$a = -0.685854 + 1.021870I$		
$b = 0.74889 + 1.82687I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.279570 + 0.508697I$		
$a = -0.655421 - 0.757776I$	$-10.4575 + 12.0914I$	0
$b = 0.00347 - 1.65050I$		
$u = 1.279570 - 0.508697I$		
$a = -0.655421 + 0.757776I$	$-10.4575 - 12.0914I$	0
$b = 0.00347 + 1.65050I$		
$u = 0.706563 + 1.209930I$		
$a = -0.648502 - 0.723443I$	$-1.31805 - 7.01165I$	0
$b = 1.15299 - 1.47961I$		
$u = 0.706563 - 1.209930I$		
$a = -0.648502 + 0.723443I$	$-1.31805 + 7.01165I$	0
$b = 1.15299 + 1.47961I$		
$u = 0.326041 + 0.497146I$		
$a = -2.80161 - 1.47093I$	$-11.86600 - 5.10117I$	$-3.31976 + 13.71604I$
$b = 0.374915 - 0.577320I$		
$u = 0.326041 - 0.497146I$		
$a = -2.80161 + 1.47093I$	$-11.86600 + 5.10117I$	$-3.31976 - 13.71604I$
$b = 0.374915 + 0.577320I$		
$u = -0.80836 + 1.16532I$		
$a = -0.428291 + 0.441966I$	$-7.67134 + 3.64800I$	0
$b = -0.12334 + 1.63999I$		
$u = -0.80836 - 1.16532I$		
$a = -0.428291 - 0.441966I$	$-7.67134 - 3.64800I$	0
$b = -0.12334 - 1.63999I$		
$u = -1.27764 + 0.63566I$		
$a = 0.600340 - 0.644348I$	$-11.12240 - 3.61652I$	0
$b = -0.35571 - 1.53116I$		
$u = -1.27764 - 0.63566I$		
$a = 0.600340 + 0.644348I$	$-11.12240 + 3.61652I$	0
$b = -0.35571 + 1.53116I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.60116 + 1.35195I$		
$a = 0.663090 - 0.813046I$	$-5.60159 + 9.06894I$	0
$b = -0.72253 - 1.22270I$		
$u = -0.60116 - 1.35195I$		
$a = 0.663090 + 0.813046I$	$-5.60159 - 9.06894I$	0
$b = -0.72253 + 1.22270I$		
$u = -0.81198 + 1.24526I$		
$a = -0.496488 + 0.794285I$	$-8.9761 + 11.0061I$	0
$b = 0.77989 + 1.88384I$		
$u = -0.81198 - 1.24526I$		
$a = -0.496488 - 0.794285I$	$-8.9761 - 11.0061I$	0
$b = 0.77989 - 1.88384I$		
$u = -0.00068 + 1.48664I$		
$a = 0.398547 + 0.239482I$	$3.77813 - 4.67524I$	0
$b = -0.445922 + 0.044881I$		
$u = -0.00068 - 1.48664I$		
$a = 0.398547 - 0.239482I$	$3.77813 + 4.67524I$	0
$b = -0.445922 - 0.044881I$		
$u = 0.79017 + 1.26045I$		
$a = 0.539243 + 0.899260I$	$-7.9951 - 19.3312I$	0
$b = -0.96322 + 1.86450I$		
$u = 0.79017 - 1.26045I$		
$a = 0.539243 - 0.899260I$	$-7.9951 + 19.3312I$	0
$b = -0.96322 - 1.86450I$		
$u = 0.15580 + 1.48534I$		
$a = 0.648674 - 0.013151I$	$-1.344860 + 0.071059I$	0
$b = 0.140672 + 0.486657I$		
$u = 0.15580 - 1.48534I$		
$a = 0.648674 + 0.013151I$	$-1.344860 - 0.071059I$	0
$b = 0.140672 - 0.486657I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.259274 + 0.426424I$		
$a = -1.47486 + 0.23951I$	$-6.46196 + 0.59813I$	$-2.28013 + 2.06602I$
$b = 0.93919 - 1.44304I$		
$u = -0.259274 - 0.426424I$		
$a = -1.47486 - 0.23951I$	$-6.46196 - 0.59813I$	$-2.28013 - 2.06602I$
$b = 0.93919 + 1.44304I$		
$u = 0.378100 + 0.315438I$		
$a = 0.061691 + 0.566245I$	$-5.55648 - 7.76279I$	$-8.80485 + 0.13382I$
$b = -1.44940 - 1.89731I$		
$u = 0.378100 - 0.315438I$		
$a = 0.061691 - 0.566245I$	$-5.55648 + 7.76279I$	$-8.80485 - 0.13382I$
$b = -1.44940 + 1.89731I$		
$u = 0.460230 + 0.031925I$		
$a = 0.68579 - 2.15652I$	$-1.89889 - 2.91214I$	$-2.97212 + 3.96953I$
$b = 0.662368 - 0.658317I$		
$u = 0.460230 - 0.031925I$		
$a = 0.68579 + 2.15652I$	$-1.89889 + 2.91214I$	$-2.97212 - 3.96953I$
$b = 0.662368 + 0.658317I$		
$u = -0.294915 + 0.277240I$		
$a = -1.249540 - 0.321400I$	$1.112250 - 0.672938I$	$6.55539 + 1.55226I$
$b = -0.336044 + 0.469231I$		
$u = -0.294915 - 0.277240I$		
$a = -1.249540 + 0.321400I$	$1.112250 + 0.672938I$	$6.55539 - 1.55226I$
$b = -0.336044 - 0.469231I$		
$u = -1.54620 + 0.49174I$		
$a = -0.377594 + 0.642257I$	$-10.29290 - 0.46791I$	0
$b = 0.07544 + 1.72310I$		
$u = -1.54620 - 0.49174I$		
$a = -0.377594 - 0.642257I$	$-10.29290 + 0.46791I$	0
$b = 0.07544 - 1.72310I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.89165 + 1.36360I$		
$a = 0.481026 - 0.723766I$	$-7.39010 + 8.78873I$	0
$b = -1.06851 - 1.68449I$		
$u = -0.89165 - 1.36360I$		
$a = 0.481026 + 0.723766I$	$-7.39010 - 8.78873I$	0
$b = -1.06851 + 1.68449I$		
$u = -0.07002 + 1.81798I$		
$a = -0.515105 + 0.073071I$	$-1.39947 + 6.49457I$	0
$b = 0.412978 + 0.054824I$		
$u = -0.07002 - 1.81798I$		
$a = -0.515105 - 0.073071I$	$-1.39947 - 6.49457I$	0
$b = 0.412978 - 0.054824I$		

II.

$$I_2^u = \langle 2.36 \times 10^{30} u^{39} + 1.06 \times 10^{30} u^{38} + \dots + 2.44 \times 10^{29} b - 7.09 \times 10^{30}, -7.27 \times 10^{30} u^{39} - 1.24 \times 10^{31} u^{38} + \dots + 2.44 \times 10^{29} a + 2.35 \times 10^{30}, u^{40} + 2u^{39} + \dots + 2u + 1 \rangle$$

(i) **Arc colorings**

$$a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 29.7463u^{39} + 50.6475u^{38} + \dots + 65.2894u - 9.59554 \\ -9.63502u^{39} - 4.33277u^{38} + \dots + 7.83294u + 29.0222 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -6.24409u^{39} - 19.3595u^{38} + \dots + 35.8114u - 21.5391 \\ -6.23997u^{39} - 2.63691u^{38} + \dots + 0.390048u + 18.6882 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.00411436u^{39} - 16.7226u^{38} + \dots + 35.4213u - 40.2272 \\ -6.23997u^{39} - 2.63691u^{38} + \dots + 0.390048u + 18.6882 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 29.0169u^{39} + 84.8647u^{38} + \dots + 187.391u + 59.9064 \\ -17.1156u^{39} - 44.1846u^{38} + \dots - 71.6652u - 38.0551 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -72.8815u^{39} - 101.235u^{38} + \dots - 85.0283u + 64.7378 \\ 31.8632u^{39} + 60.5309u^{38} + \dots + 81.9156u + 25.0931 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 36.4409u^{39} + 55.0238u^{38} + \dots + 61.2585u - 27.0313 \\ -2.59464u^{39} + 4.41572u^{38} + \dots + 15.1332u + 20.5992 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 7.52128u^{39} + 43.4975u^{38} + \dots + 15.2571u + 72.4110 \\ -5.11574u^{39} - 24.7981u^{38} + \dots - 55.2528u - 40.9312 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -10.4023u^{39} - 4.14132u^{38} + \dots + 31.3326u + 66.7682 \\ 11.3636u^{39} + 21.2245u^{38} + \dots + 27.9945u + 10.6085 \end{pmatrix}$$

(ii) **Obstruction class = 1**

(iii) **Cusp Shapes** = $-56.6554u^{39} - 56.7530u^{38} + \dots - 43.5485u + 78.1331$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{40} - 6u^{39} + \cdots + 2u + 1$
c_2	$u^{40} + 2u^{39} + \cdots + 2u + 1$
c_3	$u^{40} + 7u^{38} + \cdots + 22u^2 + 1$
c_4	$u^{40} + 15u^{38} + \cdots + u + 1$
c_5	$u^{40} + 26u^{38} + \cdots - 7u + 3$
c_6	$u^{40} - 2u^{39} + \cdots - 2u + 1$
c_7	$u^{40} + 12u^{39} + \cdots + 6u + 1$
c_8	$u^{40} - 2u^{39} + \cdots - 8u + 33$
c_9	$u^{40} - 4u^{39} + \cdots - 2u + 1$
c_{10}	$u^{40} - 12u^{39} + \cdots - 6u + 1$
c_{11}, c_{12}	$u^{40} + 26u^{38} + \cdots + 7u + 3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{40} + 8y^{39} + \cdots + 10y + 1$
c_2, c_6	$y^{40} + 20y^{39} + \cdots + 36y + 1$
c_3	$y^{40} + 14y^{39} + \cdots + 44y + 1$
c_4	$y^{40} + 30y^{39} + \cdots + 25y + 1$
c_5, c_{11}, c_{12}	$y^{40} + 52y^{39} + \cdots + 59y + 9$
c_7, c_{10}	$y^{40} + 22y^{39} + \cdots + 32y + 1$
c_8	$y^{40} + 16y^{39} + \cdots + 1256y + 1089$
c_9	$y^{40} + 8y^{39} + \cdots + 20y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.444550 + 0.914413I$		
$a = -0.96905 - 1.21576I$	$-2.29584 + 1.76861I$	$-3.60737 - 6.50436I$
$b = -0.041558 - 0.359931I$		
$u = -0.444550 - 0.914413I$		
$a = -0.96905 + 1.21576I$	$-2.29584 - 1.76861I$	$-3.60737 + 6.50436I$
$b = -0.041558 + 0.359931I$		
$u = 0.187273 + 0.932085I$		
$a = 0.430639 - 1.322430I$	$3.81470 - 0.78259I$	$-4.44356 + 8.12416I$
$b = 0.317986 - 0.324879I$		
$u = 0.187273 - 0.932085I$		
$a = 0.430639 + 1.322430I$	$3.81470 + 0.78259I$	$-4.44356 - 8.12416I$
$b = 0.317986 + 0.324879I$		
$u = 0.103709 + 1.052920I$		
$a = 0.162735 - 0.717732I$	$0.606419 - 0.422920I$	$5.92451 - 2.14116I$
$b = -1.002300 - 0.109719I$		
$u = 0.103709 - 1.052920I$		
$a = 0.162735 + 0.717732I$	$0.606419 + 0.422920I$	$5.92451 + 2.14116I$
$b = -1.002300 + 0.109719I$		
$u = -0.157513 + 1.141160I$		
$a = -0.625253 - 0.411431I$	$0.72327 - 1.31147I$	$-2.43030 + 8.28751I$
$b = -0.882706 + 0.389542I$		
$u = -0.157513 - 1.141160I$		
$a = -0.625253 + 0.411431I$	$0.72327 + 1.31147I$	$-2.43030 - 8.28751I$
$b = -0.882706 - 0.389542I$		
$u = -0.459495 + 1.059880I$		
$a = -0.624357 + 0.471625I$	$-6.49496 + 2.48742I$	$4.09239 - 0.50324I$
$b = -0.79266 + 1.50891I$		
$u = -0.459495 - 1.059880I$		
$a = -0.624357 - 0.471625I$	$-6.49496 - 2.48742I$	$4.09239 + 0.50324I$
$b = -0.79266 - 1.50891I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.327736 + 0.747107I$		
$a = 0.98982 - 1.25683I$	$-0.91572 + 3.34905I$	$6.49485 - 6.47835I$
$b = -1.34302 - 0.87753I$		
$u = -0.327736 - 0.747107I$		
$a = 0.98982 + 1.25683I$	$-0.91572 - 3.34905I$	$6.49485 + 6.47835I$
$b = -1.34302 + 0.87753I$		
$u = -1.186900 + 0.062909I$		
$a = -0.097888 + 0.552757I$	$-7.89709 + 0.96908I$	$-11.70952 + 7.02494I$
$b = -0.09909 + 2.48425I$		
$u = -1.186900 - 0.062909I$		
$a = -0.097888 - 0.552757I$	$-7.89709 - 0.96908I$	$-11.70952 - 7.02494I$
$b = -0.09909 - 2.48425I$		
$u = 0.722017 + 0.952058I$		
$a = -0.344851 - 0.919898I$	$0.15202 - 5.01084I$	$2.00000 + 7.80911I$
$b = 0.64926 - 1.60763I$		
$u = 0.722017 - 0.952058I$		
$a = -0.344851 + 0.919898I$	$0.15202 + 5.01084I$	$2.00000 - 7.80911I$
$b = 0.64926 + 1.60763I$		
$u = 0.443692 + 1.109600I$		
$a = 0.766187 - 0.292369I$	$0.970237 - 0.012243I$	$3.33159 + 1.87657I$
$b = -0.430106 + 0.246966I$		
$u = 0.443692 - 1.109600I$		
$a = 0.766187 + 0.292369I$	$0.970237 + 0.012243I$	$3.33159 - 1.87657I$
$b = -0.430106 - 0.246966I$		
$u = 0.571025 + 1.110320I$		
$a = -0.766465 - 0.758843I$	$-0.71028 - 6.28155I$	$0. + 6.09192I$
$b = 1.08906 - 1.59059I$		
$u = 0.571025 - 1.110320I$		
$a = -0.766465 + 0.758843I$	$-0.71028 + 6.28155I$	$0. - 6.09192I$
$b = 1.08906 + 1.59059I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.296920 + 0.169850I$		
$a = -0.281347 + 0.913459I$	$-10.33980 - 2.19096I$	0
$b = -0.126023 + 1.368710I$		
$u = -1.296920 - 0.169850I$		
$a = -0.281347 - 0.913459I$	$-10.33980 + 2.19096I$	0
$b = -0.126023 - 1.368710I$		
$u = 1.302850 + 0.214110I$		
$a = 0.230499 + 0.678527I$	$-3.88043 + 0.67833I$	$0. - 11.89725I$
$b = -0.02376 + 1.81092I$		
$u = 1.302850 - 0.214110I$		
$a = 0.230499 - 0.678527I$	$-3.88043 - 0.67833I$	$0. + 11.89725I$
$b = -0.02376 - 1.81092I$		
$u = -0.200667 + 0.644596I$		
$a = 1.98028 - 0.41743I$	$-8.54079 + 0.70829I$	$-5.06182 - 12.00760I$
$b = -1.72532 + 0.25249I$		
$u = -0.200667 - 0.644596I$		
$a = 1.98028 + 0.41743I$	$-8.54079 - 0.70829I$	$-5.06182 + 12.00760I$
$b = -1.72532 - 0.25249I$		
$u = 0.412690 + 0.533656I$		
$a = 0.035749 + 0.927287I$	$-5.34256 - 8.10456I$	$1.6796 + 16.4619I$
$b = 1.01970 + 2.36762I$		
$u = 0.412690 - 0.533656I$		
$a = 0.035749 - 0.927287I$	$-5.34256 + 8.10456I$	$1.6796 - 16.4619I$
$b = 1.01970 - 2.36762I$		
$u = 0.233922 + 0.618882I$		
$a = 1.60397 + 0.80050I$	$-3.18342 + 2.49347I$	$-1.92849 - 5.48708I$
$b = -0.36236 + 1.48237I$		
$u = 0.233922 - 0.618882I$		
$a = 1.60397 - 0.80050I$	$-3.18342 - 2.49347I$	$-1.92849 + 5.48708I$
$b = -0.36236 - 1.48237I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.218148 + 0.583018I$		
$a = -0.91360 + 1.11345I$	$-0.98005 + 4.91747I$	$5.03116 - 8.96155I$
$b = 0.21487 + 2.03800I$		
$u = -0.218148 - 0.583018I$		
$a = -0.91360 - 1.11345I$	$-0.98005 - 4.91747I$	$5.03116 + 8.96155I$
$b = 0.21487 - 2.03800I$		
$u = 0.15771 + 1.47078I$		
$a = 0.346555 + 0.069621I$	$3.41178 - 4.33900I$	0
$b = -0.180229 - 0.167427I$		
$u = 0.15771 - 1.47078I$		
$a = 0.346555 - 0.069621I$	$3.41178 + 4.33900I$	0
$b = -0.180229 + 0.167427I$		
$u = -0.69434 + 1.33473I$		
$a = 0.638877 - 0.782571I$	$-6.41075 + 9.08001I$	0
$b = -0.81248 - 1.50925I$		
$u = -0.69434 - 1.33473I$		
$a = 0.638877 + 0.782571I$	$-6.41075 - 9.08001I$	0
$b = -0.81248 + 1.50925I$		
$u = -0.09140 + 1.58151I$		
$a = -0.228927 + 0.057448I$	$-0.20447 + 6.13649I$	0
$b = 1.188430 - 0.153311I$		
$u = -0.09140 - 1.58151I$		
$a = -0.228927 - 0.057448I$	$-0.20447 - 6.13649I$	0
$b = 1.188430 + 0.153311I$		
$u = -0.057220 + 0.367746I$		
$a = -4.83357 + 0.87437I$	$-11.69990 - 4.70526I$	$5.02386 - 2.74606I$
$b = 0.342300 + 0.508522I$		
$u = -0.057220 - 0.367746I$		
$a = -4.83357 - 0.87437I$	$-11.69990 + 4.70526I$	$5.02386 + 2.74606I$
$b = 0.342300 - 0.508522I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{40} - 6u^{39} + \dots + 2u + 1)(u^{144} - 5u^{143} + \dots - 106u + 17)$
c_2	$(u^{40} + 2u^{39} + \dots + 2u + 1)(u^{144} - u^{143} + \dots + 5896u + 989)$
c_3	$(u^{40} + 7u^{38} + \dots + 22u^2 + 1)(u^{144} + u^{143} + \dots - 431616u + 85504)$
c_4	$(u^{40} + 15u^{38} + \dots + u + 1)(u^{144} - u^{143} + \dots + 545u + 307)$
c_5	$(u^{40} + 26u^{38} + \dots - 7u + 3)(u^{144} - u^{143} + \dots + 2435u + 193)$
c_6	$(u^{40} - 2u^{39} + \dots - 2u + 1)(u^{144} - u^{143} + \dots + 5896u + 989)$
c_7	$(u^{40} + 12u^{39} + \dots + 6u + 1)(u^{144} - 7u^{143} + \dots + 126358u + 11033)$
c_8	$(u^{40} - 2u^{39} + \dots - 8u + 33)(u^{144} + u^{143} + \dots + 222158u + 28393)$
c_9	$(u^{40} - 4u^{39} + \dots - 2u + 1)(u^{144} - 3u^{143} + \dots - 94488u + 22681)$
c_{10}	$(u^{40} - 12u^{39} + \dots - 6u + 1)(u^{144} - 7u^{143} + \dots + 126358u + 11033)$
c_{11}, c_{12}	$(u^{40} + 26u^{38} + \dots + 7u + 3)(u^{144} - u^{143} + \dots + 2435u + 193)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{40} + 8y^{39} + \dots + 10y + 1)(y^{144} + 17y^{143} + \dots + 8926y + 289)$
c_2, c_6	$(y^{40} + 20y^{39} + \dots + 36y + 1)$ $\cdot (y^{144} + 65y^{143} + \dots + 23149068y + 978121)$
c_3	$(y^{40} + 14y^{39} + \dots + 44y + 1)$ $\cdot (y^{144} - 5y^{143} + \dots - 279517724672y + 7310934016)$
c_4	$(y^{40} + 30y^{39} + \dots + 25y + 1)$ $\cdot (y^{144} + 51y^{143} + \dots + 4212805y + 94249)$
c_5, c_{11}, c_{12}	$(y^{40} + 52y^{39} + \dots + 59y + 9)$ $\cdot (y^{144} + 161y^{143} + \dots + 3654383y + 37249)$
c_7, c_{10}	$(y^{40} + 22y^{39} + \dots + 32y + 1)$ $\cdot (y^{144} + 87y^{143} + \dots + 4474494936y + 121727089)$
c_8	$(y^{40} + 16y^{39} + \dots + 1256y + 1089)$ $\cdot (y^{144} + 25y^{143} + \dots + 51876294512y + 806162449)$
c_9	$(y^{40} + 8y^{39} + \dots + 20y + 1)$ $\cdot (y^{144} + 37y^{143} + \dots + 31337234260y + 514427761)$