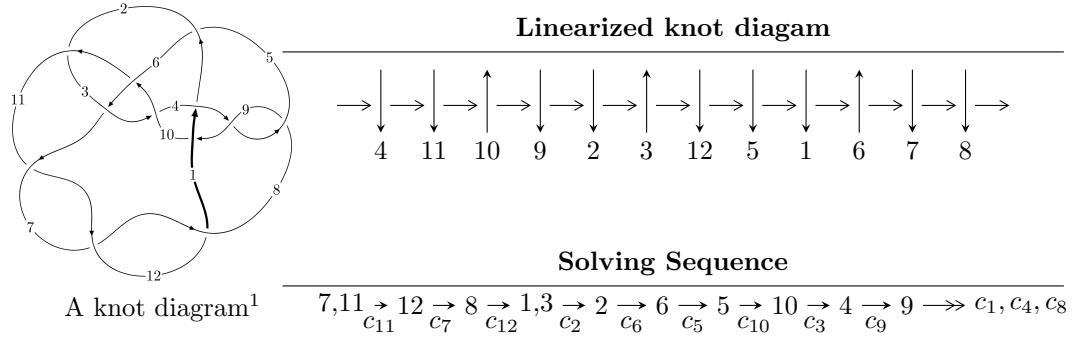


$12a_{1207}$ ($K12a_{1207}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u = & \langle 9.69782 \times 10^{536} u^{139} - 2.25657 \times 10^{536} u^{138} + \dots + 6.06990 \times 10^{539} b + 5.03879 \times 10^{539}, \\
 & 2.09110 \times 10^{539} u^{139} - 1.68892 \times 10^{539} u^{138} + \dots + 5.15941 \times 10^{541} a - 1.14839 \times 10^{541}, \\
 & u^{140} - u^{139} + \dots + 1003u - 289 \rangle \\
 I_2^u = & \langle -186986226u^{33} + 327109657u^{32} + \dots + 86350699b - 1171458903, \\
 & 1805845965u^{33} - 920160738u^{32} + \dots + 86350699a + 6335297871, u^{34} - 22u^{32} + \dots + 10u + 1 \rangle
 \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 174 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.

$$\text{I. } I_1^u = \langle 9.70 \times 10^{536} u^{139} - 2.26 \times 10^{536} u^{138} + \dots + 6.07 \times 10^{539} b + 5.04 \times 10^{539}, 2.09 \times 10^{539} u^{139} - 1.69 \times 10^{539} u^{138} + \dots + 5.16 \times 10^{541} a - 1.15 \times 10^{541}, u^{140} - u^{139} + \dots + 1003u - 289 \rangle$$

(i) **Arc colorings**

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

$$a_{11} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u^2 + 1 \\ -u^4 + 2u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -0.00405297u^{139} + 0.00327347u^{138} + \dots + 3.21409u + 0.222581 \\ -0.00159769u^{139} + 0.000371764u^{138} + \dots + 2.12271u - 0.830128 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.00565066u^{139} + 0.00364523u^{138} + \dots + 5.33680u - 0.607546 \\ -0.00159769u^{139} + 0.000371764u^{138} + \dots + 2.12271u - 0.830128 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.00200581u^{139} + 0.00496507u^{138} + \dots - 6.08461u + 3.72627 \\ -0.000810012u^{139} + 0.000938180u^{138} + \dots + 0.913658u + 0.556043 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.00402005u^{139} - 0.00217381u^{138} + \dots - 5.07444u + 0.659975 \\ 0.000571152u^{139} - 0.00100493u^{138} + \dots - 0.805524u + 0.766408 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.00270227u^{139} - 0.00279415u^{138} + \dots - 1.21625u + 4.64222 \\ -0.00228002u^{139} + 0.00212213u^{138} + \dots + 3.56568u - 0.996732 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.00489730u^{139} - 0.00549964u^{138} + \dots - 8.88933u + 3.90747 \\ 0.0000696783u^{139} - 0.00146228u^{138} + \dots + 1.57653u + 0.256233 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.00261727u^{139} - 0.00177802u^{138} + \dots - 0.497087u + 4.05204 \\ -0.00181158u^{139} + 0.00219701u^{138} + \dots + 2.86224u - 0.820622 \end{pmatrix}$$

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

(iii) **Cusp Shapes** = $-0.0120913u^{139} + 0.00925037u^{138} + \dots - 5.95755u - 14.8088$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{140} + 4u^{139} + \cdots - 9u + 1$
c_2	$u^{140} - 2u^{139} + \cdots + 333381u - 48473$
c_3	$u^{140} - 2u^{139} + \cdots - 41435571198u - 5037373313$
c_4, c_8	$u^{140} + 41u^{138} + \cdots - 3278u - 326$
c_5	$u^{140} - 36u^{138} + \cdots + 1736923383u + 361950067$
c_6	$u^{140} - 8u^{139} + \cdots + 106962u + 10082$
c_7, c_{11}, c_{12}	$u^{140} - u^{139} + \cdots + 1003u - 289$
c_9	$u^{140} - u^{139} + \cdots + 31u - 211$
c_{10}	$u^{140} + 3u^{139} + \cdots + 14u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{140} + 10y^{139} + \dots + 27y + 1$
c_2	$y^{140} - 40y^{139} + \dots - 91720535629y + 2349631729$
c_3	$y^{140} + 84y^{139} + \dots + 9.52 \times 10^{20}y + 2.54 \times 10^{19}$
c_4, c_8	$y^{140} + 82y^{139} + \dots + 3039300y + 106276$
c_5	$y^{140} - 72y^{139} + \dots - 3.85 \times 10^{18}y + 1.31 \times 10^{17}$
c_6	$y^{140} + 50y^{139} + \dots - 13461745852y + 101646724$
c_7, c_{11}, c_{12}	$y^{140} - 159y^{139} + \dots - 199121y + 83521$
c_9	$y^{140} - 17y^{139} + \dots - 3596401y + 44521$
c_{10}	$y^{140} + 11y^{139} + \dots + 18y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.664700 + 0.764460I$		
$a = 0.786549 - 0.391919I$	$-4.21163 + 0.44946I$	0
$b = -0.777311 - 0.272732I$		
$u = -0.664700 - 0.764460I$		
$a = 0.786549 + 0.391919I$	$-4.21163 - 0.44946I$	0
$b = -0.777311 + 0.272732I$		
$u = 0.723613 + 0.663890I$		
$a = 0.100235 + 1.407650I$	$-4.29384 - 9.41106I$	0
$b = -1.098430 - 0.770465I$		
$u = 0.723613 - 0.663890I$		
$a = 0.100235 - 1.407650I$	$-4.29384 + 9.41106I$	0
$b = -1.098430 + 0.770465I$		
$u = -0.875504 + 0.391347I$		
$a = -0.694523 + 0.387506I$	$-1.105740 - 0.505263I$	0
$b = 0.785277 + 0.019643I$		
$u = -0.875504 - 0.391347I$		
$a = -0.694523 - 0.387506I$	$-1.105740 + 0.505263I$	0
$b = 0.785277 - 0.019643I$		
$u = -0.733482 + 0.494442I$		
$a = 1.337570 - 0.211604I$	$1.98403 - 3.21396I$	0
$b = -0.097656 - 0.212794I$		
$u = -0.733482 - 0.494442I$		
$a = 1.337570 + 0.211604I$	$1.98403 + 3.21396I$	0
$b = -0.097656 + 0.212794I$		
$u = 1.061780 + 0.419066I$		
$a = -0.466473 - 0.043502I$	$2.41235 - 5.18322I$	0
$b = 0.186946 - 0.630288I$		
$u = 1.061780 - 0.419066I$		
$a = -0.466473 + 0.043502I$	$2.41235 + 5.18322I$	0
$b = 0.186946 + 0.630288I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.842849 + 0.091369I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.389431 - 0.059980I$	$-0.971976 + 0.163551I$	0
$b = 0.589549 + 0.329056I$		
$u = -0.842849 - 0.091369I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.389431 + 0.059980I$	$-0.971976 - 0.163551I$	0
$b = 0.589549 - 0.329056I$		
$u = 0.797009 + 0.237221I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.61591 - 1.60801I$	$-1.00052 - 4.05079I$	0
$b = 0.841277 + 0.591255I$		
$u = 0.797009 - 0.237221I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.61591 + 1.60801I$	$-1.00052 + 4.05079I$	0
$b = 0.841277 - 0.591255I$		
$u = -0.695414 + 0.416816I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.415690 - 1.231430I$	$-0.84448 - 4.06575I$	0
$b = 0.747231 + 1.026780I$		
$u = -0.695414 - 0.416816I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.415690 + 1.231430I$	$-0.84448 + 4.06575I$	0
$b = 0.747231 - 1.026780I$		
$u = -0.784025 + 0.909426I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.199354 - 1.141200I$	$-0.7502 + 14.8929I$	0
$b = -1.039980 + 0.900244I$		
$u = -0.784025 - 0.909426I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.199354 + 1.141200I$	$-0.7502 - 14.8929I$	0
$b = -1.039980 - 0.900244I$		
$u = -0.427709 + 1.129230I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.486121 + 0.803738I$	$-2.94428 + 5.11499I$	0
$b = 0.917993 - 0.745761I$		
$u = -0.427709 - 1.129230I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.486121 - 0.803738I$	$-2.94428 - 5.11499I$	0
$b = 0.917993 + 0.745761I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.110880 + 0.770452I$		
$a = -1.176030 + 0.513815I$	$-2.67355 + 4.62927I$	0
$b = 0.959095 - 0.550578I$		
$u = 0.110880 - 0.770452I$		
$a = -1.176030 - 0.513815I$	$-2.67355 - 4.62927I$	0
$b = 0.959095 + 0.550578I$		
$u = 0.579144 + 0.513632I$		
$a = -0.502537 - 0.140677I$	$3.12611 + 4.01064I$	0
$b = 0.652717 - 0.875480I$		
$u = 0.579144 - 0.513632I$		
$a = -0.502537 + 0.140677I$	$3.12611 - 4.01064I$	0
$b = 0.652717 + 0.875480I$		
$u = 0.662666 + 0.391153I$		
$a = -0.14133 - 1.72463I$	$-1.03835 - 6.46385I$	0
$b = 0.994817 + 0.972515I$		
$u = 0.662666 - 0.391153I$		
$a = -0.14133 + 1.72463I$	$-1.03835 + 6.46385I$	0
$b = 0.994817 - 0.972515I$		
$u = 0.703698 + 0.296351I$		
$a = 1.69296 + 0.67637I$	$-1.23542 + 4.69462I$	0
$b = 1.023900 - 0.024241I$		
$u = 0.703698 - 0.296351I$		
$a = 1.69296 - 0.67637I$	$-1.23542 - 4.69462I$	0
$b = 1.023900 + 0.024241I$		
$u = -1.169030 + 0.406222I$		
$a = 0.374439 + 0.919876I$	$1.69637 + 3.05376I$	0
$b = 1.01034 - 0.99123I$		
$u = -1.169030 - 0.406222I$		
$a = 0.374439 - 0.919876I$	$1.69637 - 3.05376I$	0
$b = 1.01034 + 0.99123I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.055131 + 0.760060I$		
$a = 0.654166 + 1.059530I$	$5.41822 + 1.05469I$	0
$b = -0.564034 - 0.881275I$		
$u = 0.055131 - 0.760060I$		
$a = 0.654166 - 1.059530I$	$5.41822 - 1.05469I$	0
$b = -0.564034 + 0.881275I$		
$u = 0.512374 + 0.531816I$		
$a = -0.124478 + 1.229360I$	$3.24255 - 7.63630I$	0
$b = -1.19410 - 0.93878I$		
$u = 0.512374 - 0.531816I$		
$a = -0.124478 - 1.229360I$	$3.24255 + 7.63630I$	0
$b = -1.19410 + 0.93878I$		
$u = -0.668082 + 0.296672I$		
$a = -0.319331 + 0.795469I$	$-1.87716 + 0.12463I$	0
$b = 0.962171 - 0.600319I$		
$u = -0.668082 - 0.296672I$		
$a = -0.319331 - 0.795469I$	$-1.87716 - 0.12463I$	0
$b = 0.962171 + 0.600319I$		
$u = 0.574185 + 0.440435I$		
$a = 0.971814 - 0.681398I$	$2.57035 - 1.43023I$	0
$b = 0.036914 + 0.599146I$		
$u = 0.574185 - 0.440435I$		
$a = 0.971814 + 0.681398I$	$2.57035 + 1.43023I$	0
$b = 0.036914 - 0.599146I$		
$u = 0.462670 + 0.554740I$		
$a = 0.28947 - 1.44217I$	$2.90772 - 2.18120I$	0
$b = 0.268987 + 0.813665I$		
$u = 0.462670 - 0.554740I$		
$a = 0.28947 + 1.44217I$	$2.90772 + 2.18120I$	0
$b = 0.268987 - 0.813665I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.325781 + 0.637531I$		
$a = 0.73161 - 1.30044I$	$-0.28044 + 3.17028I$	0
$b = -0.646866 + 0.111992I$		
$u = -0.325781 - 0.637531I$		
$a = 0.73161 + 1.30044I$	$-0.28044 - 3.17028I$	0
$b = -0.646866 - 0.111992I$		
$u = 0.633748 + 1.166710I$		
$a = 0.586035 + 0.085599I$	$-0.87696 - 5.20914I$	0
$b = -0.750696 + 0.232676I$		
$u = 0.633748 - 1.166710I$		
$a = 0.586035 - 0.085599I$	$-0.87696 + 5.20914I$	0
$b = -0.750696 - 0.232676I$		
$u = 0.915236 + 0.974210I$		
$a = -0.129646 - 0.943460I$	$-1.83283 - 2.03560I$	0
$b = 0.966530 + 0.747208I$		
$u = 0.915236 - 0.974210I$		
$a = -0.129646 + 0.943460I$	$-1.83283 + 2.03560I$	0
$b = 0.966530 - 0.747208I$		
$u = -0.397448 + 0.491112I$		
$a = -2.64127 - 0.55813I$	$0.04254 + 7.33492I$	$-9.9382 - 14.3032I$
$b = -0.472527 + 0.413037I$		
$u = -0.397448 - 0.491112I$		
$a = -2.64127 + 0.55813I$	$0.04254 - 7.33492I$	$-9.9382 + 14.3032I$
$b = -0.472527 - 0.413037I$		
$u = -0.459772 + 1.299100I$		
$a = -0.634517 - 0.229659I$	$0.44709 - 7.98394I$	0
$b = 0.684407 + 0.575593I$		
$u = -0.459772 - 1.299100I$		
$a = -0.634517 + 0.229659I$	$0.44709 + 7.98394I$	0
$b = 0.684407 - 0.575593I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.439314 + 0.438525I$		
$a = -0.260113 - 1.107590I$	$-0.48464 - 7.47319I$	$-11.6774 + 11.9215I$
$b = -1.19873 + 1.08257I$		
$u = 0.439314 - 0.438525I$		
$a = -0.260113 + 1.107590I$	$-0.48464 + 7.47319I$	$-11.6774 - 11.9215I$
$b = -1.19873 - 1.08257I$		
$u = -0.396768 + 0.443070I$		
$a = -0.89644 + 2.45471I$	$2.98407 + 6.46449I$	$0.34509 - 10.66849I$
$b = 0.375721 - 0.782823I$		
$u = -0.396768 - 0.443070I$		
$a = -0.89644 - 2.45471I$	$2.98407 - 6.46449I$	$0.34509 + 10.66849I$
$b = 0.375721 + 0.782823I$		
$u = -0.191276 + 0.560807I$		
$a = 1.38693 - 1.88511I$	$0.99488 + 4.11864I$	$6.68742 - 8.04172I$
$b = -0.847157 + 0.495383I$		
$u = -0.191276 - 0.560807I$		
$a = 1.38693 + 1.88511I$	$0.99488 - 4.11864I$	$6.68742 + 8.04172I$
$b = -0.847157 - 0.495383I$		
$u = -0.512094 + 0.288469I$		
$a = 0.201018 + 0.891256I$	$-2.57763 + 2.49455I$	$-13.1614 - 11.8667I$
$b = -0.70226 - 1.39420I$		
$u = -0.512094 - 0.288469I$		
$a = 0.201018 - 0.891256I$	$-2.57763 - 2.49455I$	$-13.1614 + 11.8667I$
$b = -0.70226 + 1.39420I$		
$u = 0.312147 + 0.473730I$		
$a = -0.851897 - 0.627104I$	$-1.64722 - 2.64192I$	$-6.75968 + 7.82828I$
$b = 0.992979 + 0.845993I$		
$u = 0.312147 - 0.473730I$		
$a = -0.851897 + 0.627104I$	$-1.64722 + 2.64192I$	$-6.75968 - 7.82828I$
$b = 0.992979 - 0.845993I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.564449$		
$a = 0.133288$	-0.962744	-10.1490
$b = 0.672795$		
$u = -1.43044 + 0.15138I$		
$a = -0.115764 + 0.526391I$	-3.57102 - 0.35621I	0
$b = 0.782330 - 0.869276I$		
$u = -1.43044 - 0.15138I$		
$a = -0.115764 - 0.526391I$	-3.57102 + 0.35621I	0
$b = 0.782330 + 0.869276I$		
$u = 1.45865 + 0.11674I$		
$a = 0.64936 - 1.26547I$	-4.44443 - 6.18107I	0
$b = 1.006320 + 0.697960I$		
$u = 1.45865 - 0.11674I$		
$a = 0.64936 + 1.26547I$	-4.44443 + 6.18107I	0
$b = 1.006320 - 0.697960I$		
$u = 1.46459 + 0.13353I$		
$a = -1.213010 - 0.673295I$	-7.91264 - 1.67664I	0
$b = -0.792738 + 0.117029I$		
$u = 1.46459 - 0.13353I$		
$a = -1.213010 + 0.673295I$	-7.91264 + 1.67664I	0
$b = -0.792738 - 0.117029I$		
$u = -1.47219 + 0.12110I$		
$a = -0.231901 + 0.522863I$	-8.19313 + 0.75936I	0
$b = -1.54570 - 1.57835I$		
$u = -1.47219 - 0.12110I$		
$a = -0.231901 - 0.522863I$	-8.19313 - 0.75936I	0
$b = -1.54570 + 1.57835I$		
$u = -1.48733 + 0.03501I$		
$a = 0.322703 + 0.980063I$	-5.89372 - 3.44747I	0
$b = 0.724917 - 0.201965I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.48733 - 0.03501I$		
$a = 0.322703 - 0.980063I$	$-5.89372 + 3.44747I$	0
$b = 0.724917 + 0.201965I$		
$u = 1.48781 + 0.05381I$		
$a = 0.752448 - 0.618143I$	$-4.93916 - 2.78367I$	0
$b = 1.59477 + 0.64458I$		
$u = 1.48781 - 0.05381I$		
$a = 0.752448 + 0.618143I$	$-4.93916 + 2.78367I$	0
$b = 1.59477 - 0.64458I$		
$u = 0.503828 + 0.073523I$		
$a = -2.44089 - 2.01714I$	$-3.64336 - 1.92912I$	$-22.2195 + 4.5913I$
$b = -0.545407 - 0.128755I$		
$u = 0.503828 - 0.073523I$		
$a = -2.44089 + 2.01714I$	$-3.64336 + 1.92912I$	$-22.2195 - 4.5913I$
$b = -0.545407 + 0.128755I$		
$u = -1.48908 + 0.12089I$		
$a = -0.060076 - 0.562281I$	$-8.02860 - 2.49175I$	0
$b = -1.302230 + 0.127007I$		
$u = -1.48908 - 0.12089I$		
$a = -0.060076 + 0.562281I$	$-8.02860 + 2.49175I$	0
$b = -1.302230 - 0.127007I$		
$u = 1.47894 + 0.21321I$		
$a = -0.658120 + 0.409281I$	$-5.65381 - 0.48158I$	0
$b = -0.755694 + 0.115306I$		
$u = 1.47894 - 0.21321I$		
$a = -0.658120 - 0.409281I$	$-5.65381 + 0.48158I$	0
$b = -0.755694 - 0.115306I$		
$u = 1.49203 + 0.08952I$		
$a = -0.427255 + 0.881362I$	$-8.45812 - 5.96609I$	0
$b = -1.48446 - 1.13266I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.49203 - 0.08952I$		
$a = -0.427255 - 0.881362I$	$-8.45812 + 5.96609I$	0
$b = -1.48446 + 1.13266I$		
$u = 1.48826 + 0.17864I$		
$a = 0.535093 - 1.113330I$	$-6.31084 - 5.99967I$	0
$b = 0.823116 + 0.394357I$		
$u = 1.48826 - 0.17864I$		
$a = 0.535093 + 1.113330I$	$-6.31084 + 5.99967I$	0
$b = 0.823116 - 0.394357I$		
$u = -0.335044 + 0.367577I$		
$a = 2.03708 + 0.63434I$	$-2.09120 - 0.13055I$	$-11.23045 - 3.27237I$
$b = 0.726011 - 0.525189I$		
$u = -0.335044 - 0.367577I$		
$a = 2.03708 - 0.63434I$	$-2.09120 + 0.13055I$	$-11.23045 + 3.27237I$
$b = 0.726011 + 0.525189I$		
$u = 1.50933 + 0.13545I$		
$a = 1.61865 + 0.68437I$	$-6.33975 - 9.50478I$	0
$b = 0.541875 - 0.007146I$		
$u = 1.50933 - 0.13545I$		
$a = 1.61865 - 0.68437I$	$-6.33975 + 9.50478I$	0
$b = 0.541875 + 0.007146I$		
$u = -1.51497 + 0.13006I$		
$a = -0.185483 - 0.538002I$	$-7.94331 + 4.70663I$	0
$b = -1.68824 + 1.32651I$		
$u = -1.51497 - 0.13006I$		
$a = -0.185483 + 0.538002I$	$-7.94331 - 4.70663I$	0
$b = -1.68824 - 1.32651I$		
$u = 1.52067 + 0.11940I$		
$a = -0.289867 + 1.292590I$	$-3.51038 - 8.39205I$	0
$b = -0.475269 - 1.136580I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.52067 - 0.11940I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.289867 - 1.292590I$	$-3.51038 + 8.39205I$	0
$b = -0.475269 + 1.136580I$		
$u = -1.51859 + 0.15663I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.527020 - 0.806732I$	$-3.66738 + 4.69280I$	0
$b = -0.554889 + 0.927513I$		
$u = -1.51859 - 0.15663I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.527020 + 0.806732I$	$-3.66738 - 4.69280I$	0
$b = -0.554889 - 0.927513I$		
$u = 1.52841$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.713515$	-7.81776	0
$b = -1.27813$		
$u = -1.53279 + 0.01394I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 1.14809 - 1.21363I$	$-10.52960 + 2.20106I$	0
$b = 0.620121 + 0.251284I$		
$u = -1.53279 - 0.01394I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 1.14809 + 1.21363I$	$-10.52960 - 2.20106I$	0
$b = 0.620121 - 0.251284I$		
$u = -1.52839 + 0.12828I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.081023 - 0.416786I$	$-7.13324 + 9.48597I$	0
$b = 1.48690 + 1.88540I$		
$u = -1.52839 - 0.12828I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.081023 + 0.416786I$	$-7.13324 - 9.48597I$	0
$b = 1.48690 - 1.88540I$		
$u = 1.54665 + 0.05449I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.009875 + 0.380881I$	$-9.57912 - 3.58725I$	0
$b = 0.95023 - 2.11525I$		
$u = 1.54665 - 0.05449I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.009875 - 0.380881I$	$-9.57912 + 3.58725I$	0
$b = 0.95023 + 2.11525I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.54101 + 0.15944I$		
$a = 0.564425 + 0.524302I$	$-3.63309 + 10.12680I$	0
$b = 1.75708 - 0.92401I$		
$u = -1.54101 - 0.15944I$		
$a = 0.564425 - 0.524302I$	$-3.63309 - 10.12680I$	0
$b = 1.75708 + 0.92401I$		
$u = -1.56856 + 0.00769I$		
$a = -0.87398 + 1.15965I$	$-9.07794 - 4.17420I$	0
$b = -0.719647 - 0.558022I$		
$u = -1.56856 - 0.00769I$		
$a = -0.87398 - 1.15965I$	$-9.07794 + 4.17420I$	0
$b = -0.719647 + 0.558022I$		
$u = -1.57737 + 0.02561I$		
$a = -0.621805 - 0.176074I$	$-5.01387 - 2.33379I$	0
$b = -0.638593 - 0.178351I$		
$u = -1.57737 - 0.02561I$		
$a = -0.621805 + 0.176074I$	$-5.01387 + 2.33379I$	0
$b = -0.638593 + 0.178351I$		
$u = -0.108930 + 0.404335I$		
$a = -1.95782 + 1.65702I$	$-2.66601 + 4.44912I$	$-15.4555 - 3.5906I$
$b = 1.168180 - 0.645412I$		
$u = -0.108930 - 0.404335I$		
$a = -1.95782 - 1.65702I$	$-2.66601 - 4.44912I$	$-15.4555 + 3.5906I$
$b = 1.168180 + 0.645412I$		
$u = 1.59026 + 0.06498I$		
$a = -0.177485 + 0.499893I$	$-9.55332 - 1.37380I$	0
$b = -1.46257 - 1.12144I$		
$u = 1.59026 - 0.06498I$		
$a = -0.177485 - 0.499893I$	$-9.55332 + 1.37380I$	0
$b = -1.46257 + 1.12144I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.59423 + 0.11837I$		
$a = -0.352989 - 0.889997I$	$-8.72906 + 8.38051I$	0
$b = -1.32213 + 1.32352I$		
$u = -1.59423 - 0.11837I$		
$a = -0.352989 + 0.889997I$	$-8.72906 - 8.38051I$	0
$b = -1.32213 - 1.32352I$		
$u = -1.60372 + 0.21478I$		
$a = 0.513235 + 0.943608I$	$-12.0451 + 12.7341I$	0
$b = 1.32832 - 0.91986I$		
$u = -1.60372 - 0.21478I$		
$a = 0.513235 - 0.943608I$	$-12.0451 - 12.7341I$	0
$b = 1.32832 + 0.91986I$		
$u = 1.61829 + 0.08905I$		
$a = -0.115496 + 0.480212I$	$-9.46916 - 1.00537I$	0
$b = -1.201190 - 0.645880I$		
$u = 1.61829 - 0.08905I$		
$a = -0.115496 - 0.480212I$	$-9.46916 + 1.00537I$	0
$b = -1.201190 + 0.645880I$		
$u = 1.62968 + 0.05452I$		
$a = -0.230254 - 0.511771I$	$-9.05093 + 2.51533I$	0
$b = -1.31338 + 1.55457I$		
$u = 1.62968 - 0.05452I$		
$a = -0.230254 + 0.511771I$	$-9.05093 - 2.51533I$	0
$b = -1.31338 - 1.55457I$		
$u = 1.61209 + 0.25281I$		
$a = 0.008322 - 0.664491I$	$-11.78290 - 4.33530I$	0
$b = 0.931965 + 0.237653I$		
$u = 1.61209 - 0.25281I$		
$a = 0.008322 + 0.664491I$	$-11.78290 + 4.33530I$	0
$b = 0.931965 - 0.237653I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.300912 + 0.205547I$		
$a = 2.41558 + 2.51152I$	$0.23225 + 4.08304I$	$-16.4105 - 4.0590I$
$b = -0.669129 + 0.407572I$		
$u = 0.300912 - 0.205547I$		
$a = 2.41558 - 2.51152I$	$0.23225 - 4.08304I$	$-16.4105 + 4.0590I$
$b = -0.669129 - 0.407572I$		
$u = 0.199111 + 0.298771I$		
$a = 1.22881 + 1.87046I$	$-2.54694 + 0.86537I$	$-12.46402 + 5.98089I$
$b = 0.890082 - 0.895262I$		
$u = 0.199111 - 0.298771I$		
$a = 1.22881 - 1.87046I$	$-2.54694 - 0.86537I$	$-12.46402 - 5.98089I$
$b = 0.890082 + 0.895262I$		
$u = 1.61375 + 0.36334I$		
$a = -0.368619 + 0.873433I$	$-9.8237 - 10.4986I$	0
$b = -1.33880 - 0.95632I$		
$u = 1.61375 - 0.36334I$		
$a = -0.368619 - 0.873433I$	$-9.8237 + 10.4986I$	0
$b = -1.33880 + 0.95632I$		
$u = 1.64173 + 0.29194I$		
$a = 0.429051 - 0.914569I$	$-8.7098 - 19.4012I$	0
$b = 1.34940 + 1.02524I$		
$u = 1.64173 - 0.29194I$		
$a = 0.429051 + 0.914569I$	$-8.7098 + 19.4012I$	0
$b = 1.34940 - 1.02524I$		
$u = -0.187115 + 0.267019I$		
$a = 0.21996 - 3.10938I$	$0.93632 + 1.85529I$	$1.08312 - 2.65422I$
$b = -1.014640 + 0.389268I$		
$u = -0.187115 - 0.267019I$		
$a = 0.21996 + 3.10938I$	$0.93632 - 1.85529I$	$1.08312 + 2.65422I$
$b = -1.014640 - 0.389268I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.076035 + 0.309971I$		
$a = 2.55660 - 1.68509I$	$1.01016 + 1.78617I$	$-0.59593 - 2.45671I$
$b = -0.708724 + 0.256940I$		
$u = 0.076035 - 0.309971I$		
$a = 2.55660 + 1.68509I$	$1.01016 - 1.78617I$	$-0.59593 + 2.45671I$
$b = -0.708724 - 0.256940I$		
$u = -1.67758 + 0.21213I$		
$a = -0.447388 - 0.880625I$	$-10.76140 + 6.29072I$	0
$b = -1.23909 + 0.92102I$		
$u = -1.67758 - 0.21213I$		
$a = -0.447388 + 0.880625I$	$-10.76140 - 6.29072I$	0
$b = -1.23909 - 0.92102I$		
$u = -1.66320 + 0.34428I$		
$a = 0.002532 + 0.582245I$	$-8.53641 + 10.73160I$	0
$b = 1.022320 - 0.244740I$		
$u = -1.66320 - 0.34428I$		
$a = 0.002532 - 0.582245I$	$-8.53641 - 10.73160I$	0
$b = 1.022320 + 0.244740I$		
$u = -1.82968 + 0.54136I$		
$a = 0.063321 - 0.344650I$	$-7.56867 + 2.29891I$	0
$b = -0.723983 + 0.035174I$		
$u = -1.82968 - 0.54136I$		
$a = 0.063321 + 0.344650I$	$-7.56867 - 2.29891I$	0
$b = -0.723983 - 0.035174I$		
$u = 2.04595 + 0.16785I$		
$a = -0.053376 + 0.312098I$	$-8.05626 + 0.26551I$	0
$b = -0.511875 - 0.170646I$		
$u = 2.04595 - 0.16785I$		
$a = -0.053376 - 0.312098I$	$-8.05626 - 0.26551I$	0
$b = -0.511875 + 0.170646I$		

II.

$$I_2^u = \langle -1.87 \times 10^8 u^{33} + 3.27 \times 10^8 u^{32} + \dots + 8.64 \times 10^7 b - 1.17 \times 10^9, 1.81 \times 10^9 u^{33} - 9.20 \times 10^8 u^{32} + \dots + 8.64 \times 10^7 a + 6.34 \times 10^9, u^{34} - 22u^{32} + \dots + 10u + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_7 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix} \\ a_1 &= \begin{pmatrix} -u^2 + 1 \\ -u^4 + 2u^2 \end{pmatrix} \\ a_3 &= \begin{pmatrix} -20.9129u^{33} + 10.6561u^{32} + \dots - 457.670u - 73.3671 \\ 2.16543u^{33} - 3.78815u^{32} + \dots + 81.8945u + 13.5663 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -18.7475u^{33} + 6.86794u^{32} + \dots - 375.776u - 59.8008 \\ 2.16543u^{33} - 3.78815u^{32} + \dots + 81.8945u + 13.5663 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 5.06829u^{33} - 6.67284u^{32} + \dots + 17.1786u - 2.50160 \\ 0.180126u^{33} - 3.86825u^{32} + \dots - 97.1453u - 16.8136 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -8.79495u^{33} + 2.09806u^{32} + \dots - 264.937u - 46.2246 \\ 2.94152u^{33} - 5.16362u^{32} + \dots - 51.1550u - 8.71002 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 10.9766u^{33} + 2.51680u^{32} + \dots + 310.285u + 52.7726 \\ -7.26168u^{33} + 9.08502u^{32} + \dots - 79.8501u - 11.7365 \end{pmatrix} \\ a_4 &= \begin{pmatrix} -16.9016u^{33} + 7.90644u^{32} + \dots - 339.054u - 55.2055 \\ -0.163445u^{33} - 1.31578u^{32} + \dots + 22.9550u + 4.29848 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0.910329u^{33} + 11.9905u^{32} + \dots + 194.865u + 35.1480 \\ -9.87884u^{33} + 11.0194u^{32} + \dots - 95.8747u - 14.1151 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $\frac{2794613904}{86350699}u^{33} - \frac{2574155598}{86350699}u^{32} + \dots + \frac{37461769996}{86350699}u + \frac{4272649106}{86350699}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{34} - 11u^{33} + \cdots - 2u + 1$
c_2	$u^{34} - 3u^{33} + \cdots - 8u + 1$
c_3	$u^{34} - u^{33} + \cdots + 7u + 1$
c_4	$u^{34} + u^{33} + \cdots + 21u^2 + 2$
c_5	$u^{34} - 3u^{33} + \cdots + 18u + 1$
c_6	$u^{34} - 3u^{33} + \cdots - 4u + 2$
c_7	$u^{34} - 22u^{32} + \cdots - 10u + 1$
c_8	$u^{34} - u^{33} + \cdots + 21u^2 + 2$
c_9	$u^{34} + 2u^{33} + \cdots + 4u + 1$
c_{10}	$u^{34} - u^{32} + \cdots + u + 1$
c_{11}, c_{12}	$u^{34} - 22u^{32} + \cdots + 10u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{34} + 5y^{33} + \cdots + 6y + 1$
c_2	$y^{34} - 9y^{33} + \cdots - 10y + 1$
c_3	$y^{34} + 23y^{33} + \cdots + 31y + 1$
c_4, c_8	$y^{34} + 25y^{33} + \cdots + 84y + 4$
c_5	$y^{34} - 17y^{33} + \cdots - 26y + 1$
c_6	$y^{34} + 17y^{33} + \cdots + 44y + 4$
c_7, c_{11}, c_{12}	$y^{34} - 44y^{33} + \cdots - 34y + 1$
c_9	$y^{34} - 10y^{33} + \cdots - 2y + 1$
c_{10}	$y^{34} - 2y^{33} + \cdots + 25y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.989279 + 0.203665I$		
$a = 0.734686 - 0.351984I$	$-0.768130 - 0.646243I$	$4.55850 + 11.73565I$
$b = -0.612336 + 0.017182I$		
$u = -0.989279 - 0.203665I$		
$a = 0.734686 + 0.351984I$	$-0.768130 + 0.646243I$	$4.55850 - 11.73565I$
$b = -0.612336 - 0.017182I$		
$u = 0.937641 + 0.055659I$		
$a = 0.76662 + 1.30586I$	$0.80858 + 5.24365I$	$-5.52201 - 7.49048I$
$b = 0.952695 - 0.837177I$		
$u = 0.937641 - 0.055659I$		
$a = 0.76662 - 1.30586I$	$0.80858 - 5.24365I$	$-5.52201 + 7.49048I$
$b = 0.952695 + 0.837177I$		
$u = -0.840695 + 0.352056I$		
$a = 0.476619 + 1.233590I$	$-0.07404 + 2.79039I$	$-7.16144 - 3.77932I$
$b = 1.128380 - 0.531768I$		
$u = -0.840695 - 0.352056I$		
$a = 0.476619 - 1.233590I$	$-0.07404 - 2.79039I$	$-7.16144 + 3.77932I$
$b = 1.128380 + 0.531768I$		
$u = 0.307755 + 0.803304I$		
$a = -0.761474 - 0.991730I$	$-1.91553 - 4.83286I$	$-4.81123 + 6.61635I$
$b = 1.046430 + 0.758500I$		
$u = 0.307755 - 0.803304I$		
$a = -0.761474 + 0.991730I$	$-1.91553 + 4.83286I$	$-4.81123 - 6.61635I$
$b = 1.046430 - 0.758500I$		
$u = 0.757447 + 0.152912I$		
$a = 0.078985 - 1.049000I$	$1.48015 - 5.95377I$	$-7.86042 + 7.92767I$
$b = -0.496303 - 0.391394I$		
$u = 0.757447 - 0.152912I$		
$a = 0.078985 + 1.049000I$	$1.48015 + 5.95377I$	$-7.86042 - 7.92767I$
$b = -0.496303 + 0.391394I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.117754 + 0.755803I$		
$a = -0.254223 + 0.805048I$	$0.02355 - 6.24126I$	$-8.21423 + 5.84475I$
$b = -0.276335 + 0.438138I$		
$u = 0.117754 - 0.755803I$		
$a = -0.254223 - 0.805048I$	$0.02355 + 6.24126I$	$-8.21423 - 5.84475I$
$b = -0.276335 - 0.438138I$		
$u = -1.45892 + 0.00202I$		
$a = -0.467200 - 0.594925I$	$-6.65687 - 2.02827I$	0
$b = -1.002530 + 0.141984I$		
$u = -1.45892 - 0.00202I$		
$a = -0.467200 + 0.594925I$	$-6.65687 + 2.02827I$	0
$b = -1.002530 - 0.141984I$		
$u = 1.47127 + 0.12256I$		
$a = -0.55365 + 1.30221I$	$-4.84652 - 6.29791I$	0
$b = -0.872420 - 0.726831I$		
$u = 1.47127 - 0.12256I$		
$a = -0.55365 - 1.30221I$	$-4.84652 + 6.29791I$	0
$b = -0.872420 + 0.726831I$		
$u = -1.51061 + 0.14842I$		
$a = 0.880143 - 0.339347I$	$-5.96983 + 8.96814I$	0
$b = 0.790066 + 0.560236I$		
$u = -1.51061 - 0.14842I$		
$a = 0.880143 + 0.339347I$	$-5.96983 - 8.96814I$	0
$b = 0.790066 - 0.560236I$		
$u = -0.055421 + 0.471133I$		
$a = -2.45158 + 1.46306I$	$0.61118 + 4.38332I$	$-5.0601 - 16.0624I$
$b = 0.743456 - 0.481939I$		
$u = -0.055421 - 0.471133I$		
$a = -2.45158 - 1.46306I$	$0.61118 - 4.38332I$	$-5.0601 + 16.0624I$
$b = 0.743456 + 0.481939I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.362471 + 0.293998I$		
$a = -1.234700 + 0.347680I$	$-2.69779 + 1.69937I$	$-13.14521 - 2.88968I$
$b = 0.223830 - 0.867827I$		
$u = -0.362471 - 0.293998I$		
$a = -1.234700 - 0.347680I$	$-2.69779 - 1.69937I$	$-13.14521 + 2.88968I$
$b = 0.223830 + 0.867827I$		
$u = 1.55029 + 0.04466I$		
$a = 0.148100 + 0.731735I$	$-9.47670 - 2.74180I$	0
$b = -0.041462 - 1.189880I$		
$u = 1.55029 - 0.04466I$		
$a = 0.148100 - 0.731735I$	$-9.47670 + 2.74180I$	0
$b = -0.041462 + 1.189880I$		
$u = 1.59021 + 0.00218I$		
$a = -0.256671 + 0.520415I$	$-9.04202 - 1.90270I$	0
$b = -1.45056 - 1.15797I$		
$u = 1.59021 - 0.00218I$		
$a = -0.256671 - 0.520415I$	$-9.04202 + 1.90270I$	0
$b = -1.45056 + 1.15797I$		
$u = -1.58709 + 0.15483I$		
$a = -0.357886 - 0.861043I$	$-8.86158 + 7.90479I$	0
$b = -1.38538 + 1.22934I$		
$u = -1.58709 - 0.15483I$		
$a = -0.357886 + 0.861043I$	$-8.86158 - 7.90479I$	0
$b = -1.38538 - 1.22934I$		
$u = -1.61457 + 0.18278I$		
$a = -0.426045 + 0.244454I$	$-6.67896 + 1.57798I$	0
$b = -0.669300 - 0.364931I$		
$u = -1.61457 - 0.18278I$		
$a = -0.426045 - 0.244454I$	$-6.67896 - 1.57798I$	0
$b = -0.669300 + 0.364931I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.251994 + 0.021132I$		
$a = 0.23982 - 3.40414I$	$-2.15043 - 2.00413I$	$-13.9856 + 2.3495I$
$b = 1.078590 + 0.516054I$		
$u = -0.251994 - 0.021132I$		
$a = 0.23982 + 3.40414I$	$-2.15043 + 2.00413I$	$-13.9856 - 2.3495I$
$b = 1.078590 - 0.516054I$		
$u = 1.93868 + 0.15000I$		
$a = -0.061543 + 0.305664I$	$-7.93749 - 1.05206I$	0
$b = -0.656821 - 0.339100I$		
$u = 1.93868 - 0.15000I$		
$a = -0.061543 - 0.305664I$	$-7.93749 + 1.05206I$	0
$b = -0.656821 + 0.339100I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{34} - 11u^{33} + \dots - 2u + 1)(u^{140} + 4u^{139} + \dots - 9u + 1)$
c_2	$(u^{34} - 3u^{33} + \dots - 8u + 1)(u^{140} - 2u^{139} + \dots + 333381u - 48473)$
c_3	$(u^{34} - u^{33} + \dots + 7u + 1)$ $\cdot (u^{140} - 2u^{139} + \dots - 41435571198u - 5037373313)$
c_4	$(u^{34} + u^{33} + \dots + 21u^2 + 2)(u^{140} + 41u^{138} + \dots - 3278u - 326)$
c_5	$(u^{34} - 3u^{33} + \dots + 18u + 1)$ $\cdot (u^{140} - 36u^{138} + \dots + 1736923383u + 361950067)$
c_6	$(u^{34} - 3u^{33} + \dots - 4u + 2)(u^{140} - 8u^{139} + \dots + 106962u + 10082)$
c_7	$(u^{34} - 22u^{32} + \dots - 10u + 1)(u^{140} - u^{139} + \dots + 1003u - 289)$
c_8	$(u^{34} - u^{33} + \dots + 21u^2 + 2)(u^{140} + 41u^{138} + \dots - 3278u - 326)$
c_9	$(u^{34} + 2u^{33} + \dots + 4u + 1)(u^{140} - u^{139} + \dots + 31u - 211)$
c_{10}	$(u^{34} - u^{32} + \dots + u + 1)(u^{140} + 3u^{139} + \dots + 14u - 1)$
c_{11}, c_{12}	$(u^{34} - 22u^{32} + \dots + 10u + 1)(u^{140} - u^{139} + \dots + 1003u - 289)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{34} + 5y^{33} + \dots + 6y + 1)(y^{140} + 10y^{139} + \dots + 27y + 1)$
c_2	$(y^{34} - 9y^{33} + \dots - 10y + 1)$ $\cdot (y^{140} - 40y^{139} + \dots - 91720535629y + 2349631729)$
c_3	$(y^{34} + 23y^{33} + \dots + 31y + 1)$ $\cdot (y^{140} + 84y^{139} + \dots + 9.52 \times 10^{20}y + 2.54 \times 10^{19})$
c_4, c_8	$(y^{34} + 25y^{33} + \dots + 84y + 4)$ $\cdot (y^{140} + 82y^{139} + \dots + 3039300y + 106276)$
c_5	$(y^{34} - 17y^{33} + \dots - 26y + 1)$ $\cdot (y^{140} - 72y^{139} + \dots - 3.85 \times 10^{18}y + 1.31 \times 10^{17})$
c_6	$(y^{34} + 17y^{33} + \dots + 44y + 4)$ $\cdot (y^{140} + 50y^{139} + \dots - 13461745852y + 101646724)$
c_7, c_{11}, c_{12}	$(y^{34} - 44y^{33} + \dots - 34y + 1)$ $\cdot (y^{140} - 159y^{139} + \dots - 199121y + 83521)$
c_9	$(y^{34} - 10y^{33} + \dots - 2y + 1)(y^{140} - 17y^{139} + \dots - 3596401y + 44521)$
c_{10}	$(y^{34} - 2y^{33} + \dots + 25y + 1)(y^{140} + 11y^{139} + \dots + 18y + 1)$