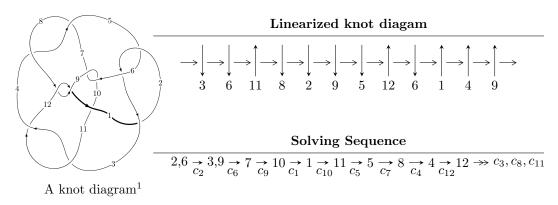
$12n_{0531} (K12n_{0531})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 3.98168 \times 10^{59} u^{66} - 1.61635 \times 10^{59} u^{65} + \dots + 8.56121 \times 10^{58} b + 6.93366 \times 10^{59}, \\ -3.91666 \times 10^{57} u^{66} - 2.46674 \times 10^{59} u^{65} + \dots + 8.56121 \times 10^{58} a + 7.09288 \times 10^{59}, \ u^{67} - u^{66} + \dots - u - 10^{58} u^{68} + 10^{58} u^{68} u^{68} + 10^{58} u^{68} u^{68} + 10^{58} u^{68} u^{68} + 10^{58} u^{68} u^{68} u^{68} u^{68} + 10^{58} u^{68} u^{6$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 86 representations.

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

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

 $\begin{matrix} \text{I.} \\ I_1^u = \langle 3.98 \times 10^{59} u^{66} - 1.62 \times 10^{59} u^{65} + \dots + 8.56 \times 10^{58} b + 6.93 \times 10^{59}, \ -3.92 \times 10^{57} u^{66} - 2.47 \times 10^{59} u^{65} + \dots + 8.56 \times 10^{58} a + 7.09 \times 10^{59}, \ u^{67} - u^{66} + \dots - u - 1 \rangle \end{matrix}$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.0457489u^{66} + 2.88130u^{65} + \cdots - 27.2442u - 8.28490 \\ -4.65084u^{66} + 1.88799u^{65} + \cdots - 26.3094u - 8.09892 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -11.1496u^{66} + 2.79842u^{65} + \cdots - 32.9791u - 16.1327 \\ -5.95825u^{66} - 0.0553272u^{65} + \cdots - 0.0564103u - 4.23853 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0457489u^{66} + 2.88130u^{65} + \cdots - 27.2442u - 8.28490 \\ -0.178100u^{66} + 1.80249u^{65} + \cdots - 23.3366u - 5.17187 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -2.13841u^{66} + 4.49817u^{65} + \cdots - 47.2572u - 13.4375 \\ -3.31213u^{66} + 2.20785u^{65} + \cdots - 30.1781u - 8.48270 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -11.5127u^{66} + 4.27285u^{65} + \cdots - 40.5082u - 18.4704 \\ -6.32132u^{66} + 1.41910u^{65} + \cdots - 7.58545u - 6.57617 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 4.82960u^{66} - 5.95359u^{65} + \cdots + 62.5953u + 18.9033 \\ 6.29424u^{66} - 4.13193u^{65} + \cdots + 48.8147u + 13.7851 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.918229u^{66} + 1.37577u^{65} + \cdots - 14.7930u - 2.94334 \\ -0.625938u^{66} + 2.40274u^{65} + \cdots - 25.0155u - 4.68849 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-60.9077u^{66} + 29.1274u^{65} + \cdots 300.156u 103.773$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{67} + 37u^{66} + \dots + 7u + 1$
c_2, c_5	$u^{67} + u^{66} + \dots - u + 1$
c_3, c_{11}	$u^{67} - 2u^{66} + \dots - 89u + 29$
c_4, c_7	$u^{67} - 3u^{66} + \dots + 1479u + 1799$
c_6, c_9	$u^{67} - 10u^{66} + \dots - 14957u + 583$
c_8, c_{12}	$u^{67} - 3u^{66} + \dots + 1963u + 409$
c_{10}	$u^{67} + 6u^{66} + \dots + 958404u - 46939$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{67} - 5y^{66} + \dots + 59y - 1$
c_2, c_5	$y^{67} - 37y^{66} + \dots + 7y - 1$
c_3, c_{11}	$y^{67} - 66y^{66} + \dots + 7283y - 841$
c_4, c_7	$y^{67} + 35y^{66} + \dots - 114931057y - 3236401$
c_6, c_9	$y^{67} - 50y^{66} + \dots - 1103445y - 339889$
c_8, c_{12}	$y^{67} - 43y^{66} + \dots + 32507091y - 167281$
c_{10}	$y^{67} + 22y^{66} + \dots + 83085423428y - 2203269721$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.252718 + 0.954803I		
a = -0.26765 - 1.61765I	5.44022 + 9.83317I	3.49519 - 5.08650I
b = 0.0508940 - 0.0605544I		
u = 0.252718 - 0.954803I		
a = -0.26765 + 1.61765I	5.44022 - 9.83317I	3.49519 + 5.08650I
b = 0.0508940 + 0.0605544I		
u = -0.992189 + 0.285907I		
a = 0.299845 - 0.936902I	-0.72386 + 3.39798I	0
b = 0.110971 - 0.511676I		
u = -0.992189 - 0.285907I		
a = 0.299845 + 0.936902I	-0.72386 - 3.39798I	0
b = 0.110971 + 0.511676I		
u = 1.003700 + 0.377660I		
a = -0.36326 - 2.02909I	6.90463 - 5.17042I	0
b = -0.22611 - 1.95101I		
u = 1.003700 - 0.377660I		
a = -0.36326 + 2.02909I	6.90463 + 5.17042I	0
b = -0.22611 + 1.95101I		
u = -0.407354 + 0.830734I		
a = 0.62622 + 1.45214I	1.53350 - 1.63271I	4.18307 + 1.16614I
b = 0.0808578 - 0.0470274I		
u = -0.407354 - 0.830734I		
a = 0.62622 - 1.45214I	1.53350 + 1.63271I	4.18307 - 1.16614I
b = 0.0808578 + 0.0470274I		
u = -0.999539 + 0.414079I		
a = -0.68465 + 1.36026I	7.15973 + 0.55296I	0
b = -1.62369 + 0.88630I		
u = -0.999539 - 0.414079I		
a = -0.68465 - 1.36026I	7.15973 - 0.55296I	0
b = -1.62369 - 0.88630I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.123677 + 0.896241I		
a = 0.46772 - 1.45771I	-0.54114 - 5.20408I	0.74353 + 5.07775I
b = 0.188411 + 0.059427I		
u = -0.123677 - 0.896241I		
a = 0.46772 + 1.45771I	-0.54114 + 5.20408I	0.74353 - 5.07775I
b = 0.188411 - 0.059427I		
u = 0.058282 + 0.894932I		
a = 0.22934 + 1.41748I	1.96860 + 2.63316I	3.47626 - 2.77896I
b = -0.420848 + 0.236426I		
u = 0.058282 - 0.894932I		
a = 0.22934 - 1.41748I	1.96860 - 2.63316I	3.47626 + 2.77896I
b = -0.420848 - 0.236426I		
u = 0.888129 + 0.007732I		
a = -0.216716 + 0.589577I	-1.42025 + 0.09498I	-5.88538 + 0.49320I
b = 0.397274 - 0.090049I		
u = 0.888129 - 0.007732I		
a = -0.216716 - 0.589577I	-1.42025 - 0.09498I	-5.88538 - 0.49320I
b = 0.397274 + 0.090049I		
u = 0.818749 + 0.312512I		
a = 0.261521 + 0.302439I	2.49844 - 1.45815I	5.05080 + 4.52220I
b = -0.94854 - 1.42046I		
u = 0.818749 - 0.312512I		
a = 0.261521 - 0.302439I	2.49844 + 1.45815I	$\int 5.05080 - 4.52220I$
b = -0.94854 + 1.42046I		
u = -0.826794 + 0.261915I		
a = -1.15533 - 0.90370I	2.29966 + 1.29505I	7.24915 - 5.10541I
b = -1.65362 + 0.22840I		
u = -0.826794 - 0.261915I		
a = -1.15533 + 0.90370I	2.29966 - 1.29505I	7.24915 + 5.10541I
b = -1.65362 - 0.22840I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.062370 + 0.439025I		
a = -0.1189350 + 0.0634968I	6.23019 + 6.25320I	0
b = 0.08475 - 1.49717I		
u = -1.062370 - 0.439025I		
a = -0.1189350 - 0.0634968I	6.23019 - 6.25320I	0
b = 0.08475 + 1.49717I		
u = 1.078930 + 0.400055I		
a = 0.966889 - 0.461546I	5.90798 - 0.58176I	0
b = 1.50362 + 0.72539I		
u = 1.078930 - 0.400055I		
a = 0.966889 + 0.461546I	5.90798 + 0.58176I	0
b = 1.50362 - 0.72539I		
u = 1.139110 + 0.269989I		
a = -1.336930 - 0.044286I	-3.24471 - 0.99304I	0
b = -2.77376 + 0.09507I		
u = 1.139110 - 0.269989I		
a = -1.336930 + 0.044286I	-3.24471 + 0.99304I	0
b = -2.77376 - 0.09507I		
u = -0.870317 + 0.790370I		
a = -0.382693 - 0.266135I	4.48838 + 2.95750I	0
b = -0.207034 - 0.348229I		
u = -0.870317 - 0.790370I		
a = -0.382693 + 0.266135I	4.48838 - 2.95750I	0
b = -0.207034 + 0.348229I		
u = 0.790678 + 0.880867I		
a = 0.506555 - 0.282964I	9.15754 - 5.60614I	0
b = -0.109676 + 0.105383I		
u = 0.790678 - 0.880867I		
a = 0.506555 + 0.282964I	9.15754 + 5.60614I	0
b = -0.109676 - 0.105383I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.126398 + 0.792019I		
a = -0.34046 + 1.55116I	-2.45188 - 0.35885I	-3.63602 + 0.23516I
b = 0.141669 + 0.103536I		
u = 0.126398 - 0.792019I		
a = -0.34046 - 1.55116I	-2.45188 + 0.35885I	-3.63602 - 0.23516I
b = 0.141669 - 0.103536I		
u = 0.962593 + 0.817723I		
a = 0.208169 - 0.306861I	8.63874 - 0.64633I	0
b = 0.616506 - 0.727645I		
u = 0.962593 - 0.817723I		
a = 0.208169 + 0.306861I	8.63874 + 0.64633I	0
b = 0.616506 + 0.727645I		
u = 1.196810 + 0.425223I		
a = 0.992583 + 0.428060I	-2.51573 - 3.88919I	0
b = 2.34581 + 0.17564I		
u = 1.196810 - 0.425223I		
a = 0.992583 - 0.428060I	-2.51573 + 3.88919I	0
b = 2.34581 - 0.17564I		
u = -0.095962 + 0.718089I		
a = -0.870727 - 1.075470I	1.107230 - 0.185144I	4.79017 - 0.71844I
b = -0.514432 + 0.209197I		
u = -0.095962 - 0.718089I		
a = -0.870727 + 1.075470I	1.107230 + 0.185144I	4.79017 + 0.71844I
b = -0.514432 - 0.209197I		
u = -1.222550 + 0.406422I		
a = 1.373620 + 0.083582I	-6.39757 + 4.49155I	0
b = 2.55563 + 0.01499I		
u = -1.222550 - 0.406422I		
a = 1.373620 - 0.083582I	-6.39757 - 4.49155I	0
b = 2.55563 - 0.01499I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.190060 + 0.501845I		
a = -0.803790 - 0.598061I	-1.97091 + 4.80612I	0
b = -1.74421 - 0.52832I		
u = -1.190060 - 0.501845I		
a = -0.803790 + 0.598061I	-1.97091 - 4.80612I	0
b = -1.74421 + 0.52832I		
u = -1.150470 + 0.612288I		
a = 1.177240 + 0.454917I	-0.72397 + 7.05260I	0
b = 2.37784 + 0.80163I		
u = -1.150470 - 0.612288I		
a = 1.177240 - 0.454917I	-0.72397 - 7.05260I	0
b = 2.37784 - 0.80163I		
u = 1.205080 + 0.518507I		
a = -1.148840 + 0.185650I	-5.59025 - 4.50406I	0
b = -2.18745 + 0.58972I		
u = 1.205080 - 0.518507I		
a = -1.148840 - 0.185650I	-5.59025 + 4.50406I	0
b = -2.18745 - 0.58972I		
u = 1.264300 + 0.382115I		
a = 1.009520 - 0.475156I	-4.90333 + 0.82967I	0
b = 2.03470 - 0.67673I		
u = 1.264300 - 0.382115I		
a = 1.009520 + 0.475156I	-4.90333 - 0.82967I	0
b = 2.03470 + 0.67673I		
u = -1.265610 + 0.421354I		
a = 0.943794 - 0.070930I	-2.14236 + 1.98560I	0
b = 1.70252 + 0.53403I		
u = -1.265610 - 0.421354I		
a = 0.943794 + 0.070930I	-2.14236 - 1.98560I	0
b = 1.70252 - 0.53403I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.308880 + 0.267985I		
a = -1.123170 - 0.336397I	0.18085 - 5.77518I	0
b = -2.17522 - 0.78717I		
u = -1.308880 - 0.267985I		
a = -1.123170 + 0.336397I	0.18085 + 5.77518I	0
b = -2.17522 + 0.78717I		
u = 1.245830 + 0.493179I		
a = -1.43974 + 0.17283I	-1.63829 - 7.60166I	0
b = -2.43608 - 0.13299I		
u = 1.245830 - 0.493179I		
a = -1.43974 - 0.17283I	-1.63829 + 7.60166I	0
b = -2.43608 + 0.13299I		
u = -1.235560 + 0.521982I		
a = -1.234460 + 0.179282I	-3.91456 + 10.33250I	0
b = -2.59326 + 0.12435I		
u = -1.235560 - 0.521982I		
a = -1.234460 - 0.179282I	-3.91456 - 10.33250I	0
b = -2.59326 - 0.12435I		
u = 1.225640 + 0.591919I		
a = 1.41828 + 0.02698I	2.4570 - 15.4421I	0
b = 2.74705 + 0.09456I		
u = 1.225640 - 0.591919I		
a = 1.41828 - 0.02698I	2.4570 + 15.4421I	0
b = 2.74705 - 0.09456I		
u = 0.596336 + 0.122603I		
a = 2.26885 + 1.87775I	8.49281 + 2.29820I	6.25286 - 4.10564I
b = 2.01780 + 0.76808I		
u = 0.596336 - 0.122603I		
a = 2.26885 - 1.87775I	8.49281 - 2.29820I	6.25286 + 4.10564I
b = 2.01780 - 0.76808I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.592523		
a = -0.956423	-1.13446	-10.7330
b = 0.295328		
u = -0.497958 + 0.215908I		
a = 0.68502 - 2.08646I	8.74993 + 2.73352I	4.86441 - 2.29828I
b = 1.76295 - 0.08326I		
u = -0.497958 - 0.215908I		
a = 0.68502 + 2.08646I	8.74993 - 2.73352I	4.86441 + 2.29828I
b = 1.76295 + 0.08326I		
u = -0.291880 + 0.442830I		
a = -0.880180 - 0.165991I	1.258410 - 0.412792I	6.74896 + 1.13109I
b = -0.525541 + 0.323507I		
u = -0.291880 - 0.442830I		
a = -0.880180 + 0.165991I	1.258410 + 0.412792I	6.74896 - 1.13109I
b = -0.525541 - 0.323507I		
u = -0.108371 + 0.359754I		
a = -2.08944 - 0.74875I	8.55502 - 2.64869I	5.98628 + 2.06746I
b = 1.272570 - 0.328628I		
u = -0.108371 - 0.359754I		
a = -2.08944 + 0.74875I	8.55502 + 2.64869I	5.98628 - 2.06746I
b = 1.272570 + 0.328628I		

$$II. \\ I_2^u = \langle 2u^{18} - 2u^{17} + \dots + b - 1, \ 3u^{18} - u^{17} + \dots + a + 1, \ u^{19} - 5u^{17} + \dots + u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -3u^{18} + u^{17} + \dots - 4u - 1 \\ -2u^{18} + 2u^{17} + \dots - 5u^{2} + 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 3u^{18} - 3u^{17} + \dots + 4u - 4 \\ 5u^{18} - 3u^{17} + \dots + 10u - 3 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -3u^{18} + u^{17} + \dots - 4u - 1 \\ -4u^{18} + 3u^{17} + \dots - 4u + 2 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -3u^{18} + u^{17} + \dots - u - 2 \\ -3u^{18} + 3u^{17} + \dots - u + 1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 3u^{18} - 3u^{17} + \dots + 2u - 4 \\ 5u^{18} - 3u^{17} + \dots + 8u - 3 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u^{18} - 6u^{16} + \dots - 2u^{2} + 8u \\ -2u^{18} + u^{17} + \dots + 2u - 1 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 2u^{18} - 4u^{17} + \dots + 3u - 3 \\ 3u^{18} - 4u^{17} + \dots + 4u - 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$7u^{18} + 3u^{17} - 33u^{16} - 14u^{15} + 87u^{14} + 36u^{13} - 144u^{12} - 65u^{11} + 165u^{10} + 92u^9 - 115u^8 - 96u^7 + 35u^6 + 79u^5 + 21u^4 - 48u^3 - 25u^2 + 11u + 8$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{19} - 10u^{18} + \dots + 11u - 1$
c_2	$u^{19} - 5u^{17} + \dots + u - 1$
c_3	$u^{19} + u^{18} + \dots + u - 1$
c_4	$u^{19} - 2u^{18} + \dots - u - 1$
<i>C</i> ₅	$u^{19} - 5u^{17} + \dots + u + 1$
	$u^{19} - 3u^{18} + \dots - 7u - 1$
	$u^{19} + 2u^{18} + \dots - u + 1$
<i>c</i> ₈	$u^{19} - 4u^{18} + \dots + u + 1$
<i>c</i> ₉	$u^{19} + 3u^{18} + \dots - 7u + 1$
c_{10}	$u^{19} - u^{18} + \dots + 236u + 43$
c_{11}	$u^{19} - u^{18} + \dots + u + 1$
c_{12}	$u^{19} + 4u^{18} + \dots + u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} + 6y^{18} + \dots + 27y - 1$
c_2, c_5	$y^{19} - 10y^{18} + \dots + 11y - 1$
c_3,c_{11}	$y^{19} - 23y^{18} + \dots - 13y - 1$
c_4, c_7	$y^{19} + 10y^{18} + \dots + 3y - 1$
c_{6}, c_{9}	$y^{19} - 3y^{18} + \dots + 35y - 1$
c_8, c_{12}	$y^{19} - 16y^{18} + \dots - 5y - 1$
c_{10}	$y^{19} - 3y^{18} + \dots + 26284y - 1849$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.978751 + 0.307404I		
a = -0.08895 - 1.68231I	7.28503 + 4.10785I	2.95414 - 2.86490I
b = 0.094662 - 0.624680I		
u = -0.978751 - 0.307404I		
a = -0.08895 + 1.68231I	7.28503 - 4.10785I	2.95414 + 2.86490I
b = 0.094662 + 0.624680I		
u = 0.904209 + 0.228834I		
a = 0.786990 - 0.518544I	1.67334 - 1.02006I	-5.81141 - 0.72669I
b = 1.44158 + 0.87989I		
u = 0.904209 - 0.228834I		
a = 0.786990 + 0.518544I	1.67334 + 1.02006I	-5.81141 + 0.72669I
b = 1.44158 - 0.87989I		
u = 0.818844 + 0.700124I		
a = -0.333710 - 0.781860I	10.34880 - 4.45139I	6.18516 + 3.57443I
b = -0.51330 - 1.32368I		
u = 0.818844 - 0.700124I		
a = -0.333710 + 0.781860I	10.34880 + 4.45139I	6.18516 - 3.57443I
b = -0.51330 + 1.32368I		
u = -0.880057 + 0.723725I		
a = -0.183448 - 0.085198I	4.90128 + 2.76357I	8.38876 + 0.35727I
b = 0.138934 - 0.604807I		
u = -0.880057 - 0.723725I		
a = -0.183448 + 0.085198I	4.90128 - 2.76357I	8.38876 - 0.35727I
b = 0.138934 + 0.604807I		
u = -0.787321 + 0.274997I		
a = -1.42135 + 0.91420I	8.01888 - 1.56355I	1.27949 - 2.89433I
b = -2.37267 + 1.42356I		
u = -0.787321 - 0.274997I		
a = -1.42135 - 0.91420I	8.01888 + 1.56355I	1.27949 + 2.89433I
b = -2.37267 - 1.42356I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.940062 + 0.692222I		
a = 0.550056 + 0.651231I	9.96906 - 0.91166I	6.80985 + 1.74521I
b = 0.133210 + 0.249610I		
u = 0.940062 - 0.692222I		
a = 0.550056 - 0.651231I	9.96906 + 0.91166I	6.80985 - 1.74521I
b = 0.133210 - 0.249610I		
u = -0.233447 + 0.755562I		
a = 0.49290 + 1.41879I	-0.214249 - 0.827859I	-0.372742 + 0.698304I
b = 0.316972 - 0.038293I		
u = -0.233447 - 0.755562I		
a = 0.49290 - 1.41879I	-0.214249 + 0.827859I	-0.372742 - 0.698304I
b = 0.316972 + 0.038293I		
u = 1.193260 + 0.407397I		
a = -1.117000 - 0.146511I	-4.05195 - 2.93073I	-3.39124 + 2.59909I
b = -2.25532 + 0.23263I		
u = 1.193260 - 0.407397I		
a = -1.117000 + 0.146511I	-4.05195 + 2.93073I	-3.39124 - 2.59909I
b = -2.25532 - 0.23263I		
u = -1.199490 + 0.536666I		
a = 1.122270 + 0.371800I	-3.09315 + 5.79872I	-2.42694 - 4.74421I
b = 2.14595 + 0.39527I		
u = -1.199490 - 0.536666I		
a = 1.122270 - 0.371800I	-3.09315 - 5.79872I	-2.42694 + 4.74421I
b = 2.14595 - 0.39527I		
u = 0.445385		
a = -1.61551	-0.586933	5.76990
b = 0.739953		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{19} - 10u^{18} + \dots + 11u - 1)(u^{67} + 37u^{66} + \dots + 7u + 1) $
c_2	$(u^{19} - 5u^{17} + \dots + u - 1)(u^{67} + u^{66} + \dots - u + 1)$
c_3	$(u^{19} + u^{18} + \dots + u - 1)(u^{67} - 2u^{66} + \dots - 89u + 29)$
<i>C</i> ₄	$(u^{19} - 2u^{18} + \dots - u - 1)(u^{67} - 3u^{66} + \dots + 1479u + 1799)$
<i>C</i> 5	$(u^{19} - 5u^{17} + \dots + u + 1)(u^{67} + u^{66} + \dots - u + 1)$
<i>c</i> ₆	$(u^{19} - 3u^{18} + \dots - 7u - 1)(u^{67} - 10u^{66} + \dots - 14957u + 583)$
	$(u^{19} + 2u^{18} + \dots - u + 1)(u^{67} - 3u^{66} + \dots + 1479u + 1799)$
<i>c</i> ₈	$(u^{19} - 4u^{18} + \dots + u + 1)(u^{67} - 3u^{66} + \dots + 1963u + 409)$
<i>c</i> 9	$(u^{19} + 3u^{18} + \dots - 7u + 1)(u^{67} - 10u^{66} + \dots - 14957u + 583)$
c_{10}	$(u^{19} - u^{18} + \dots + 236u + 43)(u^{67} + 6u^{66} + \dots + 958404u - 46939)$
c_{11}	$(u^{19} - u^{18} + \dots + u + 1)(u^{67} - 2u^{66} + \dots - 89u + 29)$
c_{12}	$(u^{19} + 4u^{18} + \dots + u - 1)(u^{67} - 3u^{66} + \dots + 1963u + 409)$ 19

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{19} + 6y^{18} + \dots + 27y - 1)(y^{67} - 5y^{66} + \dots + 59y - 1)$
c_2, c_5	$(y^{19} - 10y^{18} + \dots + 11y - 1)(y^{67} - 37y^{66} + \dots + 7y - 1)$
c_3, c_{11}	$(y^{19} - 23y^{18} + \dots - 13y - 1)(y^{67} - 66y^{66} + \dots + 7283y - 841)$
c_4, c_7	$(y^{19} + 10y^{18} + \dots + 3y - 1)$ $\cdot (y^{67} + 35y^{66} + \dots - 114931057y - 3236401)$
c_{6}, c_{9}	$(y^{19} - 3y^{18} + \dots + 35y - 1)(y^{67} - 50y^{66} + \dots - 1103445y - 339889)$
c_8, c_{12}	$(y^{19} - 16y^{18} + \dots - 5y - 1)$ $\cdot (y^{67} - 43y^{66} + \dots + 32507091y - 167281)$
c_{10}	$(y^{19} - 3y^{18} + \dots + 26284y - 1849)$ $\cdot (y^{67} + 22y^{66} + \dots + 83085423428y - 2203269721)$