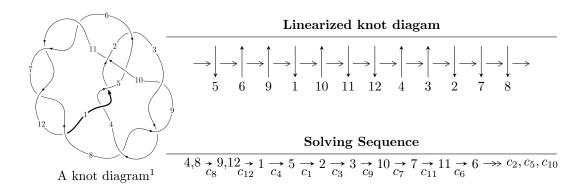
### $12a_{1240} (K12a_{1240})$



#### Ideals for irreducible components<sup>2</sup> of $X_{par}$

$$\begin{split} I_1^u &= \langle 4.60256 \times 10^{102}u^{64} + 5.40064 \times 10^{102}u^{63} + \dots + 8.11475 \times 10^{103}b + 1.59562 \times 10^{105}, \\ &- 7.53145 \times 10^{104}u^{64} + 2.70697 \times 10^{104}u^{63} + \dots + 1.40385 \times 10^{106}a + 3.91291 \times 10^{107}, \\ &u^{65} + u^{64} + \dots + 354u + 173 \rangle \\ I_2^u &= \langle u^{15} + 8u^{13} + u^{12} + 23u^{11} + 6u^{10} + 26u^9 + 12u^8 + 4u^7 + 8u^6 - 9u^5 - u^4 - 2u^3 - 2u^2 + b - u - 1, \\ &- u^{16} + u^{15} + \dots + a + 1, \\ &u^{17} + 10u^{15} + 40u^{13} - u^{12} + 80u^{11} - 7u^{10} + 80u^9 - 18u^8 + 31u^7 - 21u^6 - 4u^5 - 11u^4 - 5u^3 - 3u^2 - 2u - 1 \end{split}$$

\* 2 irreducible components of  $\dim_{\mathbb{C}} = 0$ , with total 82 representations.

<sup>&</sup>lt;sup>1</sup>The 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).

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

I. 
$$I_1^u = \langle 4.60 \times 10^{102} u^{64} + 5.40 \times 10^{102} u^{63} + \cdots + 8.11 \times 10^{103} b + 1.60 \times 10^{105}, \ -7.53 \times 10^{104} u^{64} + 2.71 \times 10^{104} u^{63} + \cdots + 1.40 \times 10^{106} a + 3.91 \times 10^{107}, \ u^{65} + u^{64} + \cdots + 354 u + 173 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.0536485u^{64} - 0.0192824u^{63} + \dots + 13.4066u - 27.8726 \\ -0.0567184u^{64} - 0.0665534u^{63} + \dots - 38.2451u - 19.6632 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.110367u^{64} + 0.0472710u^{63} + \dots + 51.6516u - 8.20942 \\ -0.0567184u^{64} - 0.0665534u^{63} + \dots - 38.2451u - 19.6632 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.0429065u^{64} - 0.00292175u^{63} + \dots + 21.3658u - 11.3738 \\ -0.0125258u^{64} - 0.0125001u^{63} + \dots - 10.2360u - 7.41086 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.0400474u^{64} - 0.000625365u^{63} + \dots - 4.46978u + 16.5675 \\ 0.00594570u^{64} + 0.0205051u^{63} + \dots + 15.4488u + 6.51593 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} 0.0399289u^{64} + 0.0211829u^{63} + \dots + 33.3413u + 0.333312 \\ -0.00290844u^{64} - 0.00912864u^{63} + \dots - 5.74412u - 4.59512 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.0230777u^{64} - 0.0466096u^{63} + \dots - 13.8268u - 24.0009 \\ -0.0279384u^{64} - 0.0319295u^{63} + \dots - 19.5314u - 12.5317 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0320474u^{64} + 0.00430410u^{63} + \dots + 17.5224u - 7.47526 \\ 0.0150469u^{64} + 0.0130919u^{63} + \dots + 17.71790u - 0.984422 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes =  $0.103545u^{64} 0.0564918u^{63} + \cdots + 57.0917u 87.3956$

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

Crossings	u-Polynomials at each crossing
$c_1, c_4$	$u^{65} - 34u^{63} + \dots + 25u - 1$
$c_2$	$u^{65} - 5u^{64} + \dots - 1840u - 529$
$c_3,c_8,c_9$	$u^{65} + u^{64} + \dots + 354u + 173$
$c_5$	$u^{65} + 2u^{64} + \dots + 784u + 131$
$c_6, c_7, c_{11} \\ c_{12}$	$u^{65} - u^{64} + \dots + 16u + 1$
$c_{10}$	$u^{65} + 5u^{64} + \dots + 1163u - 215$

# (v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1, c_4$	$y^{65} - 68y^{64} + \dots - 201y - 1$
$c_2$	$y^{65} + 27y^{64} + \dots - 5322798y - 279841$
$c_3,c_8,c_9$	$y^{65} + 77y^{64} + \dots - 683978y - 29929$
<i>C</i> <sub>5</sub>	$y^{65} + 20y^{64} + \dots - 271428y - 17161$
$c_6, c_7, c_{11}$ $c_{12}$	$y^{65} - 87y^{64} + \dots - 500y - 1$
$c_{10}$	$y^{65} - 25y^{64} + \dots + 3288859y - 46225$

# (vi) Complex Volumes and Cusp Shapes

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.726071 + 0.758126I		
a = -0.324975 - 0.706814I	-5.63744 + 7.47497I	0
b = -0.979305 + 0.369172I		
u = 0.726071 - 0.758126I		
a = -0.324975 + 0.706814I	-5.63744 - 7.47497I	0
b = -0.979305 - 0.369172I		
u = 0.975827 + 0.494607I		
a = -0.107308 + 0.453272I	-4.60698 - 1.82196I	0
b = 0.934240 + 0.048674I		
u = 0.975827 - 0.494607I		
a = -0.107308 - 0.453272I	-4.60698 + 1.82196I	0
b = 0.934240 - 0.048674I		
u = 0.543682 + 0.626807I		
a = -0.567121 - 1.246980I	-14.1457 + 2.3448I	-11.61428 - 2.93633I
b = -1.72542 + 0.11080I		
u = 0.543682 - 0.626807I		
a = -0.567121 + 1.246980I	-14.1457 - 2.3448I	-11.61428 + 2.93633I
b = -1.72542 - 0.11080I		
u = -0.117879 + 1.166460I		
a = -1.79246 + 0.68241I	-6.36326 - 2.20018I	0
b = -1.387970 + 0.003546I		
u = -0.117879 - 1.166460I		
a = -1.79246 - 0.68241I	-6.36326 + 2.20018I	0
b = -1.387970 - 0.003546I		
u = 0.088335 + 0.787639I		
a = 0.631221 + 0.409079I	-0.71879 + 1.22446I	-2.81178 - 5.97989I
b = 0.365744 - 0.340357I		
u = 0.088335 - 0.787639I		
a = 0.631221 - 0.409079I	-0.71879 - 1.22446I	-2.81178 + 5.97989I
b = 0.365744 + 0.340357I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.447830 + 0.608444I		
a = -1.60044 - 0.14443I	-8.81586 - 2.32152I	-8.51550 - 4.26961I
b = -1.59034 - 0.09596I		
u = 0.447830 - 0.608444I		
a = -1.60044 + 0.14443I	-8.81586 + 2.32152I	-8.51550 + 4.26961I
b = -1.59034 + 0.09596I		
u = 0.525484 + 0.504088I		
a = 0.43025 + 2.02495I	-13.75730 + 1.38625I	-12.86514 - 4.98182I
b = 1.69411 + 0.00431I		
u = 0.525484 - 0.504088I		
a = 0.43025 - 2.02495I	-13.75730 - 1.38625I	-12.86514 + 4.98182I
b = 1.69411 - 0.00431I		
u = -0.334819 + 0.628588I		
a = -0.278152 - 0.888652I	-2.26471 - 4.03136I	-5.94020 + 7.20403I
b = 0.103555 + 0.660906I		
u = -0.334819 - 0.628588I		
a = -0.278152 + 0.888652I	-2.26471 + 4.03136I	-5.94020 - 7.20403I
b = 0.103555 - 0.660906I		
u = -0.983839 + 0.840083I		
a = 0.958856 - 0.844751I	-15.1766 - 9.3107I	0
b = 1.71710 + 0.09388I		
u = -0.983839 - 0.840083I		
a = 0.958856 + 0.844751I	-15.1766 + 9.3107I	0
b = 1.71710 - 0.09388I		
u = 0.317310 + 0.626994I		
a = 2.68952 + 0.91215I	-9.00930 + 4.95002I	-7.74249 - 6.87275I
b = 1.61060 - 0.07096I		
u = 0.317310 - 0.626994I		
a = 2.68952 - 0.91215I	-9.00930 - 4.95002I	-7.74249 + 6.87275I
b = 1.61060 + 0.07096I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.177809 + 1.350850I		
a = -0.357829 + 0.197902I	-4.20596 + 3.45721I	0
b = -0.017560 + 0.381554I		
u = 0.177809 - 1.350850I		
a = -0.357829 - 0.197902I	-4.20596 - 3.45721I	0
b = -0.017560 - 0.381554I		
u = -0.401140 + 0.489673I		
a = 1.45507 + 0.87862I	-1.70244 + 1.41602I	-3.83791 + 4.34485I
b = 0.0202678 + 0.0500323I		
u = -0.401140 - 0.489673I		
a = 1.45507 - 0.87862I	-1.70244 - 1.41602I	-3.83791 - 4.34485I
b = 0.0202678 - 0.0500323I		
u = -1.261060 + 0.536996I		
a = -0.741092 + 0.442516I	-14.0841 + 2.0654I	0
b = -1.70945 + 0.01249I		
u = -1.261060 - 0.536996I		
a = -0.741092 - 0.442516I	-14.0841 - 2.0654I	0
b = -1.70945 - 0.01249I		
u = -0.134645 + 0.584405I		
a = 0.197801 - 1.366820I	-4.67220 + 0.02550I	-14.8497 + 0.6733I
b = 0.927502 + 0.501106I		
u = -0.134645 - 0.584405I		
a = 0.197801 + 1.366820I	-4.67220 - 0.02550I	-14.8497 - 0.6733I
b = 0.927502 - 0.501106I		
u = -0.413347 + 0.412272I		
a = -1.49091 + 0.92346I	-1.02330 - 3.62936I	-5.37000 + 9.36655I
b = -0.707354 - 0.303831I		
u = -0.413347 - 0.412272I		
a = -1.49091 - 0.92346I	-1.02330 + 3.62936I	-5.37000 - 9.36655I
b = -0.707354 + 0.303831I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.372758 + 0.426791I		
a = 0.574567 - 0.058040I	-1.20365 + 0.84496I	-6.02969 - 0.14737I
b = 0.625825 - 0.291328I		
u = -0.372758 - 0.426791I		
a = 0.574567 + 0.058040I	-1.20365 - 0.84496I	-6.02969 + 0.14737I
b = 0.625825 + 0.291328I		
u = -0.233988 + 0.506859I		
a = -0.55207 + 2.38792I	-4.55371 - 1.42223I	-13.6222 + 4.9294I
b = -0.886599 - 0.003824I		
u = -0.233988 - 0.506859I		
a = -0.55207 - 2.38792I	-4.55371 + 1.42223I	-13.6222 - 4.9294I
b = -0.886599 + 0.003824I		
u = -0.16373 + 1.44899I		
a = -1.220880 + 0.298307I	-7.19630 - 1.13487I	0
b = -0.980392 + 0.272927I		
u = -0.16373 - 1.44899I		
a = -1.220880 - 0.298307I	-7.19630 + 1.13487I	0
b = -0.980392 - 0.272927I		
u = 0.483700 + 0.237329I		
a = 0.445616 + 0.385675I	0.791769 + 1.065080I	2.72009 - 3.18149I
b = -0.083539 - 0.423218I		
u = 0.483700 - 0.237329I		
a = 0.445616 - 0.385675I	0.791769 - 1.065080I	2.72009 + 3.18149I
b = -0.083539 + 0.423218I		
u = -0.10831 + 1.47851I		
a = 1.76451 - 0.09693I	-7.28087 - 5.40688I	0
b = 0.952847 + 0.203501I		
u = -0.10831 - 1.47851I		
a = 1.76451 + 0.09693I	-7.28087 + 5.40688I	0
b = 0.952847 - 0.203501I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.497221		
a = -0.274816	-2.77118	1.37870
b = 1.21610		
u = -0.05022 + 1.56060I		
a = 1.22584 - 0.84884I	-11.64490 - 2.37865I	0
b = 0.893368 + 0.290820I		
u = -0.05022 - 1.56060I		
a = 1.22584 + 0.84884I	-11.64490 + 2.37865I	0
b = 0.893368 - 0.290820I		
u = 0.15087 + 1.57314I		
a = -2.17718 - 1.21481I	18.6332 + 3.8056I	0
b = -1.69886 + 0.07549I		
u = 0.15087 - 1.57314I		
a = -2.17718 + 1.21481I	18.6332 - 3.8056I	0
b = -1.69886 - 0.07549I		
u = -0.08895 + 1.58719I		
a = -0.128172 - 0.447048I	-9.03428 - 0.28268I	0
b = 0.041223 + 0.495260I		
u = -0.08895 - 1.58719I		
a = -0.128172 + 0.447048I	-9.03428 + 0.28268I	0
b = 0.041223 - 0.495260I		
u = -0.02863 + 1.60404I		
a = -1.029160 + 0.070588I	-12.36230 - 0.51802I	0
b = -0.974979 - 0.838184I		
u = -0.02863 - 1.60404I		
a = -1.029160 - 0.070588I	-12.36230 + 0.51802I	0
b = -0.974979 + 0.838184I		
u = -0.08706 + 1.60503I		
a = -0.173991 - 0.074369I	-9.99826 - 5.54560I	0
b = -0.141617 - 0.998457I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.08706 - 1.60503I		
a = -0.173991 + 0.074369I	-9.99826 + 5.54560I	0
b = -0.141617 + 0.998457I		
u = 0.08728 + 1.61094I		
a = -2.73738 - 0.27305I	-16.8071 + 6.4261I	0
b = -1.71337 + 0.05252I		
u = 0.08728 - 1.61094I		
a = -2.73738 + 0.27305I	-16.8071 - 6.4261I	0
b = -1.71337 - 0.05252I		
u = 0.16484 + 1.61723I		
a = 1.93553 + 0.68337I	17.6410 + 5.0053I	0
b = 1.78156 - 0.24078I		
u = 0.16484 - 1.61723I		
a = 1.93553 - 0.68337I	17.6410 - 5.0053I	0
b = 1.78156 + 0.24078I		
u = 0.20239 + 1.63940I		
a = 1.181390 + 0.350848I	-13.7279 + 10.9139I	0
b = 1.078620 - 0.622811I		
u = 0.20239 - 1.63940I		
a = 1.181390 - 0.350848I	-13.7279 - 10.9139I	0
b = 1.078620 + 0.622811I		
u = 0.10820 + 1.65060I		
a = 2.27932 + 0.08486I	-16.9343 - 0.1738I	0
b = 1.72742 + 0.06163I		
u = 0.10820 - 1.65060I		
a = 2.27932 - 0.08486I	-16.9343 + 0.1738I	0
b = 1.72742 - 0.06163I		
u = 0.26868 + 1.68165I		
a = -0.897135 - 0.531965I	-12.11670 + 3.02699I	0
b = -0.951609 + 0.306784I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.26868 - 1.68165I		
a = -0.897135 + 0.531965I	-12.11670 - 3.02699I	0
b = -0.951609 - 0.306784I		
u = -0.30378 + 1.69326I		
a = -1.89667 + 0.85876I	15.9285 - 14.2148I	0
b = -1.74870 - 0.17461I		
u = -0.30378 - 1.69326I		
a = -1.89667 - 0.85876I	15.9285 + 14.2148I	0
b = -1.74870 + 0.17461I		
u = -0.43555 + 1.77362I		
a = 1.73566 - 0.73698I	17.8768 - 4.5753I	0
b = 1.71505 + 0.08053I		
u = -0.43555 - 1.77362I		
a = 1.73566 + 0.73698I	17.8768 + 4.5753I	0
b = 1.71505 - 0.08053I		

$$I_2^u = \langle u^{15} + 8u^{13} + \dots + b - 1, -u^{16} + u^{15} + \dots + a + 1, u^{17} + 10u^{15} + \dots - 2u - 1 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ -u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u^{16} - u^{15} + \dots - u - 1 \\ -u^{15} - 8u^{13} + \dots + u + 1 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} u^{16} + 10u^{14} + \dots - 2u - 2 \\ -u^{15} - 8u^{13} + \dots + u + 1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -u^{16} - 10u^{14} + \dots + u + 2 \\ -u^{15} + u^{14} + \dots + 2u^{3} + 2u \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{5} - 3u^{3} - 2u \\ u^{16} - u^{15} + \dots - u^{2} + u \end{pmatrix}$$

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

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

$$a_{7} = \begin{pmatrix} u^{15} - u^{14} + \dots + u^{3} - 2u \\ u^{15} + 9u^{13} + \dots - 2u - 2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{6} - 4u^{4} - 3u^{2} + 1 \\ u^{15} + 8u^{13} + \dots - u^{2} - u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{16} - 9u^{14} + \dots + 3u^{2} + 1 \\ -u^{15} + u^{14} + \dots + 2u^{3} + u \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = 
$$-u^{16} - 3u^{15} - 8u^{14} - 26u^{13} - 24u^{12} - 85u^{11} - 31u^{10} - 126u^9 - 12u^8 - 75u^7 + 6u^6 + u^5 + 13u^4 + 16u^3 + 19u^2 + 7u - 6$$

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

Crossings	u-Polynomials at each crossing
$c_1$	$u^{17} + 3u^{16} + \dots - 3u - 1$
$c_2$	$u^{17} + 3u^{15} + \dots + 2u - 1$
$c_3$	$u^{17} + 10u^{15} + \dots - 2u + 1$
$c_4$	$u^{17} - 3u^{16} + \dots - 3u + 1$
<i>C</i> <sub>5</sub>	$u^{17} + u^{16} + \dots + 2u^3 + 1$
$c_6, c_7$	$u^{17} - 12u^{15} + \dots + 2u + 1$
$c_{8}, c_{9}$	$u^{17} + 10u^{15} + \dots - 2u - 1$
$c_{10}$	$u^{17} + 2u^{16} + \dots - 3u - 1$
$c_{11}, c_{12}$	$u^{17} - 12u^{15} + \dots + 2u - 1$

## (v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1, c_4$	$y^{17} - 17y^{16} + \dots + 11y - 1$
$c_2$	$y^{17} + 6y^{16} + \dots - 6y - 1$
$c_3, c_8, c_9$	$y^{17} + 20y^{16} + \dots - 2y - 1$
<i>C</i> <sub>5</sub>	$y^{17} + 3y^{16} + \dots + 6y^2 - 1$
$c_6, c_7, c_{11}$ $c_{12}$	$y^{17} - 24y^{16} + \dots + 16y - 1$
$c_{10}$	$y^{17} - 6y^{16} + \dots + 3y - 1$

# (vi) Complex Volumes and Cusp Shapes

Solutions to $I_2^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.139852 + 1.214420I		
a = 1.287590 + 0.470581I	-11.11750 - 4.71969I	-12.69339 + 3.70079I
b = 1.52103 + 0.06882I		
u = -0.139852 - 1.214420I		
a = 1.287590 - 0.470581I	-11.11750 + 4.71969I	-12.69339 - 3.70079I
b = 1.52103 - 0.06882I		
u = 0.770505		
a = 0.356369	-13.5631	-10.8690
b = -1.71199		
u = -0.313732 + 0.658301I		
a = -2.46686 - 0.50202I	-8.98775 + 3.06986I	-11.77160 - 5.40163I
b = -1.56317 + 0.07758I		
u = -0.313732 - 0.658301I		
a = -2.46686 + 0.50202I	-8.98775 - 3.06986I	-11.77160 + 5.40163I
b = -1.56317 - 0.07758I		
u = 0.150767 + 1.264220I		
a = -0.036312 + 0.695026I	-4.79179 + 3.71423I	-13.1910 - 5.6524I
b = -0.280089 + 0.210720I		
u = 0.150767 - 1.264220I		
a = -0.036312 - 0.695026I	-4.79179 - 3.71423I	-13.1910 + 5.6524I
b = -0.280089 - 0.210720I		
u = -0.155556 + 1.352930I		
a = -1.43538 + 0.81001I	-7.82356 - 2.21494I	-13.60579 + 3.56873I
b = -1.195950 + 0.186568I		
u = -0.155556 - 1.352930I		
a = -1.43538 - 0.81001I	-7.82356 + 2.21494I	-13.60579 - 3.56873I
b = -1.195950 - 0.186568I		
u = 0.344357 + 0.507264I		
a = 1.69631 - 0.60701I	-1.98177 - 1.91528I	-11.51112 + 7.56473I
b = 0.435868 + 0.235200I		

Solutions to $I_2^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.344357 - 0.507264I		
a = 1.69631 + 0.60701I	-1.98177 + 1.91528I	-11.51112 - 7.56473I
b = 0.435868 - 0.235200I		
u = -0.413428 + 0.204442I		
a = -1.37361 - 0.56067I	-3.72761 + 0.27179I	-7.30557 - 0.70090I
b = 0.983355 + 0.195981I		
u = -0.413428 - 0.204442I		
a = -1.37361 + 0.56067I	-3.72761 - 0.27179I	-7.30557 + 0.70090I
b = 0.983355 - 0.195981I		
u = -0.06863 + 1.60082I		
a = -0.854604 + 0.519619I	-10.71870 - 1.63142I	-9.76522 + 0.61847I
b = -0.759245 - 0.457661I		
u = -0.06863 - 1.60082I		
a = -0.854604 - 0.519619I	-10.71870 + 1.63142I	-9.76522 - 0.61847I
b = -0.759245 + 0.457661I		
u = 0.21082 + 1.61302I		
a = 2.00469 + 0.90354I	-19.7367 + 3.7909I	-9.22182 - 1.00044I
b = 1.71420 - 0.09994I		
u = 0.21082 - 1.61302I		
a = 2.00469 - 0.90354I	-19.7367 - 3.7909I	-9.22182 + 1.00044I
b = 1.71420 + 0.09994I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
$c_1$	$ (u^{17} + 3u^{16} + \dots - 3u - 1)(u^{65} - 34u^{63} + \dots + 25u - 1) $
$c_2$	$(u^{17} + 3u^{15} + \dots + 2u - 1)(u^{65} - 5u^{64} + \dots - 1840u - 529)$
$c_3$	$ (u^{17} + 10u^{15} + \dots - 2u + 1)(u^{65} + u^{64} + \dots + 354u + 173) $
$c_4$	$(u^{17} - 3u^{16} + \dots - 3u + 1)(u^{65} - 34u^{63} + \dots + 25u - 1)$
<i>C</i> <sub>5</sub>	$(u^{17} + u^{16} + \dots + 2u^3 + 1)(u^{65} + 2u^{64} + \dots + 784u + 131)$
$c_6, c_7$	$(u^{17} - 12u^{15} + \dots + 2u + 1)(u^{65} - u^{64} + \dots + 16u + 1)$
$c_8,c_9$	$(u^{17} + 10u^{15} + \dots - 2u - 1)(u^{65} + u^{64} + \dots + 354u + 173)$
$c_{10}$	$(u^{17} + 2u^{16} + \dots - 3u - 1)(u^{65} + 5u^{64} + \dots + 1163u - 215)$
$c_{11}, c_{12}$	$(u^{17} - 12u^{15} + \dots + 2u - 1)(u^{65} - u^{64} + \dots + 16u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
$c_1, c_4$	$(y^{17} - 17y^{16} + \dots + 11y - 1)(y^{65} - 68y^{64} + \dots - 201y - 1)$
$c_2$	$(y^{17} + 6y^{16} + \dots - 6y - 1)(y^{65} + 27y^{64} + \dots - 5322798y - 279841)$
$c_3, c_8, c_9$	$(y^{17} + 20y^{16} + \dots - 2y - 1)(y^{65} + 77y^{64} + \dots - 683978y - 29929)$
$c_5$	$(y^{17} + 3y^{16} + \dots + 6y^2 - 1)(y^{65} + 20y^{64} + \dots - 271428y - 17161)$
$c_6, c_7, c_{11}$ $c_{12}$	$(y^{17} - 24y^{16} + \dots + 16y - 1)(y^{65} - 87y^{64} + \dots - 500y - 1)$
$c_{10}$	$(y^{17} - 6y^{16} + \dots + 3y - 1)(y^{65} - 25y^{64} + \dots + 3288859y - 46225)$