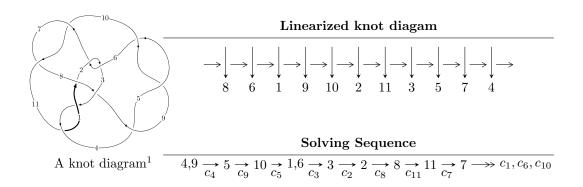
$11a_{319} (K11a_{319})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -3.02320 \times 10^{126} u^{75} - 1.11777 \times 10^{126} u^{74} + \dots + 3.99495 \times 10^{125} b - 2.42597 \times 10^{127}, \\ &- 1.55725 \times 10^{127} u^{75} - 6.75726 \times 10^{126} u^{74} + \dots + 4.39445 \times 10^{126} a - 1.20832 \times 10^{128}, \\ &u^{76} - u^{75} + \dots + 20u - 11 \rangle \\ I_2^u &= \langle u^{14} - 8u^{12} + 2u^{11} + 24u^{10} - 12u^9 - 31u^8 + 25u^7 + 12u^6 - 20u^5 + 6u^4 + 4u^3 - 4u^2 + b + u + 1, \\ &u^7 - 5u^5 + u^4 + 7u^3 - 3u^2 + a - 2u + 2, \ u^{17} - 10u^{15} + \dots - 4u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 93 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.

I.
$$I_1^u = \langle -3.02 \times 10^{126} u^{75} - 1.12 \times 10^{126} u^{74} + \dots + 3.99 \times 10^{125} b - 2.43 \times 10^{127}, \ -1.56 \times 10^{127} u^{75} - 6.76 \times 10^{126} u^{74} + \dots + 4.39 \times 10^{126} a - 1.21 \times 10^{128}, \ u^{76} - u^{75} + \dots + 20u - 11 \rangle$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 3.54367u^{75} + 1.53768u^{74} + \dots - 35.9783u + 27.4965 \\ 7.56756u^{75} + 2.79795u^{74} + \dots - 67.2178u + 60.7258 \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -5.63330u^{75} - 2.05372u^{74} + \dots + 46.7663u - 43.7933 \\ -1.63145u^{75} - 0.0719719u^{74} + \dots + 15.8051u - 16.2500 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -6.48406u^{75} - 2.02652u^{74} + \dots + 54.0242u - 53.0924 \\ 0.680076u^{75} + 0.626654u^{74} + \dots - 5.15979u + 3.31366 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -5.69380u^{75} - 2.66010u^{74} + \dots + 46.9149u - 40.6325 \\ -5.61367u^{75} - 2.27578u^{74} + \dots + 50.6262u - 43.0534 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 11.1112u^{75} + 4.33563u^{74} + \dots - 103.196u + 88.2222 \\ 7.56756u^{75} + 2.79795u^{74} + \dots - 67.2178u + 60.7258 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -12.8280u^{75} - 5.10092u^{74} + \dots + 116.740u - 101.789 \\ -9.74429u^{75} - 3.51162u^{74} + \dots + 86.7191u - 78.0492 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -12.8280u^{75} - 5.10092u^{74} + \dots + 116.740u - 101.789 \\ -9.74429u^{75} - 3.51162u^{74} + \dots + 86.7191u - 78.0492 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $17.3913u^{75} + 5.44974u^{74} + \cdots 141.033u + 132.140$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{76} - u^{75} + \dots + 412u - 8$
c_2, c_6	$u^{76} + 2u^{75} + \dots - 3u - 1$
c_3, c_{11}	$u^{76} - 2u^{75} + \dots - 9u + 1$
c_4, c_5, c_9	$u^{76} - u^{75} + \dots + 20u - 11$
c_7, c_{10}	$u^{76} - 27u^{74} + \dots + 87u + 89$
c ₈	$u^{76} + u^{75} + \dots - 656u - 71$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{76} + 7y^{75} + \dots - 193744y + 64$
c_2, c_6	$y^{76} + 38y^{75} + \dots + 9y + 1$
c_3, c_{11}	$y^{76} + 38y^{75} + \dots - 35y + 1$
c_4, c_5, c_9	$y^{76} - 77y^{75} + \dots - 1918y + 121$
c_7, c_{10}	$y^{76} - 54y^{75} + \dots - 315687y + 7921$
c ₈	$y^{76} + 3y^{75} + \dots + 35282y + 5041$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.389612 + 0.916154I		
a = 0.592515 - 1.155730I	0.62066 + 1.50555I	0
b = -0.401944 + 1.052230I		
u = 0.389612 - 0.916154I		
a = 0.592515 + 1.155730I	0.62066 - 1.50555I	0
b = -0.401944 - 1.052230I		
u = 0.823395 + 0.409350I		
a = -1.05402 + 1.27829I	4.83635 + 1.37448I	0
b = 0.263172 - 0.984227I		
u = 0.823395 - 0.409350I		
a = -1.05402 - 1.27829I	4.83635 - 1.37448I	0
b = 0.263172 + 0.984227I		
u = -0.483501 + 0.974155I		
a = 0.45679 + 1.67940I	2.29106 + 11.42070I	0
b = 0.550419 - 1.214740I		
u = -0.483501 - 0.974155I		
a = 0.45679 - 1.67940I	2.29106 - 11.42070I	0
b = 0.550419 + 1.214740I		
u = -0.424777 + 0.743415I		
a = -0.237044 - 0.126527I	-0.84401 + 6.11908I	-11.00000 - 6.39496I
b = 0.926094 + 0.184524I $u = -0.424777 - 0.743415I$		
	0.04404 0.440007	11 00000
a = -0.237044 + 0.126527I	-0.84401 - 6.11908I	-11.00000 + 6.39496I
b = 0.926094 - 0.184524I		
u = -0.814292 + 0.244342I	0.000007 + 0.0007007	11 00000 + 0 7
a = 1.026810 + 0.480678I	-0.099237 + 0.900566I	-11.00000 + 0.I
b = 0.092563 - 0.921471I		
u = -0.814292 - 0.244342I	0.000007 0.0007007	11 00000 + 0 7
a = 1.026810 - 0.480678I	-0.099237 - 0.900566I	-11.00000 + 0.I
b = 0.092563 + 0.921471I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.176061 + 0.818582I		
a = 0.40528 + 1.71607I	-1.33166 - 1.72547I	-14.8473 + 4.3130I
b = -0.156652 - 0.429229I		
u = -0.176061 - 0.818582I		
a = 0.40528 - 1.71607I	-1.33166 + 1.72547I	-14.8473 - 4.3130I
b = -0.156652 + 0.429229I		
u = 0.543220 + 0.596118I		
a = -0.72897 + 1.68729I	-0.40362 - 6.16038I	-12.6367 + 6.4189I
b = -0.578793 - 1.217190I		
u = 0.543220 - 0.596118I		
a = -0.72897 - 1.68729I	-0.40362 + 6.16038I	-12.6367 - 6.4189I
b = -0.578793 + 1.217190I		
u = 0.403956 + 0.694531I		
a = 0.73517 - 2.36579I	5.95784 - 5.41839I	-4.91437 + 6.37990I
b = 0.385169 + 1.155850I		
u = 0.403956 - 0.694531I		
a = 0.73517 + 2.36579I	5.95784 + 5.41839I	-4.91437 - 6.37990I
b = 0.385169 - 1.155850I		
u = -0.015418 + 0.764248I		
a = 0.31937 - 1.71331I	4.17534 + 2.02937I	-5.35264 - 3.44939I
b = 0.256820 + 1.279050I		
u = -0.015418 - 0.764248I		
a = 0.31937 + 1.71331I	4.17534 - 2.02937I	-5.35264 + 3.44939I
b = 0.256820 - 1.279050I		
u = -1.183710 + 0.358531I		
a = 1.199420 + 0.565118I	0.57865 + 2.05556I	0
b = 0.548063 - 1.068230I		
u = -1.183710 - 0.358531I		
a = 1.199420 - 0.565118I	0.57865 - 2.05556I	0
b = 0.548063 + 1.068230I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.251120 + 0.248625I		
a = -0.239750 + 0.761391I	0.32319 - 5.68921I	0
b = -0.04156 - 1.45310I		
u = 1.251120 - 0.248625I		
a = -0.239750 - 0.761391I	0.32319 + 5.68921I	0
b = -0.04156 + 1.45310I		
u = 1.28115		
a = -0.459645	-6.35187	0
b = -1.47825		
u = -0.415404 + 0.582852I		
a = 0.68270 + 1.54587I	-1.28370 - 1.66052I	-14.5329 + 1.9841I
b = 0.204358 - 0.032720I		
u = -0.415404 - 0.582852I		
a = 0.68270 - 1.54587I	-1.28370 + 1.66052I	-14.5329 - 1.9841I
b = 0.204358 + 0.032720I		
u = -0.890446 + 0.929837I		
a = -0.353070 - 0.943896I	1.26015 - 5.05770I	0
b = 0.423475 + 1.099500I		
u = -0.890446 - 0.929837I		
a = -0.353070 + 0.943896I	1.26015 + 5.05770I	0
b = 0.423475 - 1.099500I		
u = -1.283810 + 0.130212I		
a = 0.118830 - 0.700349I	0.441238 - 0.180661I	0
b = 0.369265 + 1.250970I		
u = -1.283810 - 0.130212I		
a = 0.118830 + 0.700349I	0.441238 + 0.180661I	0
b = 0.369265 - 1.250970I		
u = 1.266800 + 0.325823I		
a = -0.765340 + 1.058530I	-1.94552 - 5.55310I	0
b = -0.566425 - 1.234630I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.266800 - 0.325823I		
a = -0.765340 - 1.058530I	-1.94552 + 5.55310I	0
b = -0.566425 + 1.234630I		
u = 0.444836 + 0.522365I		
a = -0.398098 - 0.467252I	2.60495 - 1.78296I	-8.00353 + 3.87013I
b = 0.596050 + 0.039922I		
u = 0.444836 - 0.522365I		
a = -0.398098 + 0.467252I	2.60495 + 1.78296I	-8.00353 - 3.87013I
b = 0.596050 - 0.039922I		
u = 1.311600 + 0.103518I		
a = -1.03048 + 1.21009I	-1.92305 - 4.87099I	0
b = -0.514398 - 1.236890I		
u = 1.311600 - 0.103518I		
a = -1.03048 - 1.21009I	-1.92305 + 4.87099I	0
b = -0.514398 + 1.236890I		
u = 1.349720 + 0.065820I		
a = 1.217170 - 0.101012I	0.77408 - 3.35704I	0
b = 0.870938 + 1.013400I		
u = 1.349720 - 0.065820I		
a = 1.217170 + 0.101012I	0.77408 + 3.35704I	0
b = 0.870938 - 1.013400I		
u = 1.350640 + 0.063400I		
a = -0.176995 - 0.118422I	-5.57637 - 0.20639I	0
b = -0.931081 + 0.000401I		
u = 1.350640 - 0.063400I		
a = -0.176995 + 0.118422I	-5.57637 + 0.20639I	0
b = -0.931081 - 0.000401I		
u = -1.357900 + 0.043884I		
a = -1.79725 + 1.15210I	-5.22695 + 2.29906I	0
b = -0.387768 - 0.909786I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.357900 - 0.043884I		
a = -1.79725 - 1.15210I	-5.22695 - 2.29906I	0
b = -0.387768 + 0.909786I		
u = -0.122694 + 0.619434I		
a = 0.10445 - 2.19105I	2.14249 + 2.23159I	-8.54552 - 3.67223I
b = -0.296199 + 1.106080I		
u = -0.122694 - 0.619434I		
a = 0.10445 + 2.19105I	2.14249 - 2.23159I	-8.54552 + 3.67223I
b = -0.296199 - 1.106080I		
u = -1.44891 + 0.14080I		
a = -0.481123 - 0.199172I	-9.34391 + 2.22180I	0
b = -1.224630 - 0.584901I		
u = -1.44891 - 0.14080I		
a = -0.481123 + 0.199172I	-9.34391 - 2.22180I	0
b = -1.224630 + 0.584901I		
u = -1.47061 + 0.16030I		
a = 0.306582 + 0.332343I	-3.60983 + 4.19667I	0
b = 0.822237 + 0.047329I		
u = -1.47061 - 0.16030I		
a = 0.306582 - 0.332343I	-3.60983 - 4.19667I	0
b = 0.822237 - 0.047329I		
u = -1.41933 + 0.42065I		
a = -0.67180 - 1.40557I	-5.65001 + 6.63038I	0
b = -0.442929 + 0.884817I		
u = -1.41933 - 0.42065I		
a = -0.67180 + 1.40557I	-5.65001 - 6.63038I	0
b = -0.442929 - 0.884817I		
u = -1.50726 + 0.09538I		
a = -0.602552 + 0.769876I	-5.76261 + 5.49552I	0
b = -0.338449 + 0.760870I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.50726 - 0.09538I		
a = -0.602552 - 0.769876I	-5.76261 - 5.49552I	0
b = -0.338449 - 0.760870I		
u = 1.48612 + 0.28014I		
a = 0.298246 - 0.283277I	-7.01934 - 9.87112I	0
b = 1.119880 - 0.368135I		
u = 1.48612 - 0.28014I		
a = 0.298246 + 0.283277I	-7.01934 + 9.87112I	0
b = 1.119880 + 0.368135I		
u = -1.49359 + 0.25146I		
a = 1.21705 + 1.14348I	-0.24612 + 8.87181I	0
b = 0.486385 - 1.199380I		
u = -1.49359 - 0.25146I		
a = 1.21705 - 1.14348I	-0.24612 - 8.87181I	0
b = 0.486385 + 1.199380I		
u = -1.50705 + 0.22242I		
a = -1.051270 - 0.758406I	-7.04703 + 9.23303I	0
b = -0.75035 + 1.23699I		
u = -1.50705 - 0.22242I		
a = -1.051270 + 0.758406I	-7.04703 - 9.23303I	0
b = -0.75035 - 1.23699I		
u = 0.360949 + 0.309680I		
a = 0.180409 + 0.096738I	-3.43137 - 0.38386I	-15.2643 + 10.3620I
b = -1.096150 + 0.295785I		
u = 0.360949 - 0.309680I		
a = 0.180409 - 0.096738I	-3.43137 + 0.38386I	-15.2643 - 10.3620I
b = -1.096150 - 0.295785I		
u = 0.417296 + 0.152664I		
a = -0.84873 - 1.85322I	0.75348 - 4.33489I	-11.2955 + 8.9006I
b = -0.341529 - 1.042830I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.417296 - 0.152664I		
a = -0.84873 + 1.85322I	0.75348 + 4.33489I	-11.2955 - 8.9006I
b = -0.341529 + 1.042830I		
u = 1.56105 + 0.14869I		
a = 0.992041 - 0.886508I	-8.50171 - 1.93111I	0
b = 0.411088 + 0.863529I		
u = 1.56105 - 0.14869I		
a = 0.992041 + 0.886508I	-8.50171 + 1.93111I	0
b = 0.411088 - 0.863529I		
u = 1.53973 + 0.35591I		
a = 1.07371 - 0.98960I	-4.2259 - 16.2332I	0
b = 0.672388 + 1.243770I		
u = 1.53973 - 0.35591I		
a = 1.07371 + 0.98960I	-4.2259 + 16.2332I	0
b = 0.672388 - 1.243770I		
u = -1.57933 + 0.28128I		
a = 0.128178 + 0.124917I	-6.09912 + 3.01607I	0
b = -0.405226 - 0.753491I		
u = -1.57933 - 0.28128I		
a = 0.128178 - 0.124917I	-6.09912 - 3.01607I	0
b = -0.405226 + 0.753491I		
u = 1.63371 + 0.02501I		
a = 1.034860 - 0.164822I	-8.60907 - 1.62605I	0
b = 0.371504 + 0.828903I		
u = 1.63371 - 0.02501I		
a = 1.034860 + 0.164822I	-8.60907 + 1.62605I	0
b = 0.371504 - 0.828903I		
u = 0.116708 + 0.338520I		
a = 0.11659 + 3.10251I	4.88852 + 2.19681I	-2.89903 - 5.12791I
b = 0.577872 - 1.070210I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.116708 - 0.338520I		
a = 0.11659 - 3.10251I	4.88852 - 2.19681I	-2.89903 + 5.12791I
b = 0.577872 + 1.070210I		
u = -0.288819 + 0.196852I		
a = 3.36414 + 3.48302I	-1.19588 - 1.58823I	-17.1201 + 3.8590I
b = -0.013597 + 0.532558I		
u = -0.288819 - 0.196852I		
a = 3.36414 - 3.48302I	-1.19588 + 1.58823I	-17.1201 - 3.8590I
b = -0.013597 - 0.532558I		
u = -0.342111		
a = 0.739155	-0.544579	-18.2820
b = -0.232162		
u = 1.66294 + 0.03279I		
a = 0.499176 + 0.154210I	-8.73345 + 1.51887I	0
b = 0.395150 - 0.796004I		
u = 1.66294 - 0.03279I		
a = 0.499176 - 0.154210I	-8.73345 - 1.51887I	0
b = 0.395150 + 0.796004I		

$$\begin{aligned} \text{II. } I_2^u = \langle u^{14} - 8u^{12} + \dots + b + 1, \ u^7 - 5u^5 + u^4 + 7u^3 - 3u^2 + a - 2u + \\ 2, \ u^{17} - 10u^{15} + \dots - 4u + 1 \rangle \end{aligned}$$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ -u^{3} + u \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -u^{7} + 5u^{5} - u^{4} - 7u^{3} + 3u^{2} + 2u - 2 \\ -u^{14} + 8u^{12} + \dots - u - 1 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{2} + 1 \\ -u^{4} + 2u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} u^{16} - 9u^{14} + \dots + 4u^{2} - 3u \\ -u^{15} - u^{14} + \dots - u - 1 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} u^{16} - 9u^{14} + \dots - 3u - 1 \\ -u^{14} - u^{13} + \dots + 3u - 2 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{16} - 9u^{14} + \dots - 3u - 1 \\ -u^{14} - u^{13} + \dots + 3u - 2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{7} + 4u^{5} - u^{4} - 4u^{3} + 2u^{2} \\ -u^{9} + 5u^{7} - u^{6} - 7u^{5} + 3u^{4} + u^{3} - 2u^{2} + 2u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{14} + 8u^{12} + \dots + u - 3 \\ -u^{14} + 8u^{12} + \dots - u - 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{16} + 9u^{14} + \dots - u + 3 \\ -u^{16} + 9u^{14} + \dots - u + 3 \\ -u^{16} + 9u^{14} + \dots - u + 3 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{16} + 9u^{14} + \dots - u + 3 \\ -u^{16} + 9u^{14} + \dots - u + 3 \\ -u^{16} + 9u^{14} + \dots - u + 3 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-8u^{16} - 6u^{15} + 68u^{14} + 38u^{13} - 232u^{12} - 80u^{11} + 401u^{10} + 31u^9 - 372u^8 + 111u^7 + 181u^6 - 152u^5 - 23u^4 + 59u^3 - 36u^2 - 11u - 1$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} + 4u^{14} + \dots - 2u + 1$
c_2	$u^{17} + u^{16} + \dots - u - 1$
c_3	$u^{17} + 3u^{16} + \dots + 3u + 1$
c_4,c_5	$u^{17} - 10u^{15} + \dots - 4u + 1$
c_6	$u^{17} - u^{16} + \dots - u + 1$
C ₇	$u^{17} + 3u^{16} + \dots - 3u - 1$
<i>c</i> ₈	$u^{17} + 4u^{14} + \dots - 8u + 1$
<i>C</i> 9	$u^{17} - 10u^{15} + \dots - 4u - 1$
c_{10}	$u^{17} - 3u^{16} + \dots - 3u + 1$
c_{11}	$u^{17} - 3u^{16} + \dots + 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 8y^{15} + \dots + 12y - 1$
c_2, c_6	$y^{17} + 11y^{16} + \dots - 11y - 1$
c_3, c_{11}	$y^{17} + 7y^{16} + \dots - 11y - 1$
c_4, c_5, c_9	$y^{17} - 20y^{16} + \dots + 20y - 1$
c_7, c_{10}	$y^{17} - 17y^{16} + \dots + 13y - 1$
c ₈	$y^{17} + 12y^{14} + \dots + 64y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.200720 + 0.109093I		
a = 1.259920 + 0.268542I	2.07326 + 3.18618I	-7.67391 - 3.38689I
b = 0.788681 - 1.049830I		
u = -1.200720 - 0.109093I		
a = 1.259920 - 0.268542I	2.07326 - 3.18618I	-7.67391 + 3.38689I
b = 0.788681 + 1.049830I		
u = 0.553379 + 0.552607I		
a = 0.682149 - 0.336978I	1.20372 + 3.19075I	-7.96599 - 2.39648I
b = -0.309893 + 1.117580I		
u = 0.553379 - 0.552607I		
a = 0.682149 + 0.336978I	1.20372 - 3.19075I	-7.96599 + 2.39648I
b = -0.309893 - 1.117580I		
u = 1.27911		
a = -0.341691	-6.61379	-33.2250
b = -1.46681		
u = 1.263050 + 0.263271I		
a = -0.592609 + 1.202030I	-1.45094 - 6.17034I	-11.3383 + 10.2345I
b = -0.460993 - 1.319570I		
u = 1.263050 - 0.263271I		
a = -0.592609 - 1.202030I	-1.45094 + 6.17034I	-11.3383 - 10.2345I
b = -0.460993 + 1.319570I		
u = -0.651996 + 0.211857I		
a = -0.94777 - 1.32012I	4.14519 - 1.98743I	-14.0690 + 3.3402I
b = 0.470492 + 0.965476I		
u = -0.651996 - 0.211857I		
a = -0.94777 + 1.32012I	4.14519 + 1.98743I	-14.0690 - 3.3402I
b = 0.470492 - 0.965476I		
u = 0.217192 + 0.632961I		
a = -0.20677 + 3.33767I	-0.60133 + 1.33639I	-4.28642 + 1.58322I
b = -0.098692 - 0.746992I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.217192 - 0.632961I		
a = -0.20677 - 3.33767I	-0.60133 - 1.33639I	-4.28642 - 1.58322I
b = -0.098692 + 0.746992I		
u = 1.49154 + 0.19389I		
a = 1.012630 + 0.072484I	-5.52510 - 4.39406I	-11.92932 + 2.85111I
b = 0.052423 + 0.594313I		
u = 1.49154 - 0.19389I		
a = 1.012630 - 0.072484I	-5.52510 + 4.39406I	-11.92932 - 2.85111I
b = 0.052423 - 0.594313I		
u = -1.52069		
a = -0.690467	-9.46726	-17.7890
b = -0.725037		
u = -1.68068 + 0.05321I		
a = -0.989858 - 0.336035I	-8.31921 + 1.40875I	-3.00892 + 5.68354I
b = -0.311616 + 0.857754I		
u = -1.68068 - 0.05321I		
a = -0.989858 + 0.336035I	-8.31921 - 1.40875I	-3.00892 - 5.68354I
b = -0.311616 - 0.857754I		
u = 0.258035		
a = -1.40324	-3.15865	-5.44230
b = -1.06896		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{17} + 4u^{14} + \dots - 2u + 1)(u^{76} - u^{75} + \dots + 412u - 8) \right $
c_2	$ (u^{17} + u^{16} + \dots - u - 1)(u^{76} + 2u^{75} + \dots - 3u - 1) $
c_3	$(u^{17} + 3u^{16} + \dots + 3u + 1)(u^{76} - 2u^{75} + \dots - 9u + 1)$
c_4,c_5	$ (u^{17} - 10u^{15} + \dots - 4u + 1)(u^{76} - u^{75} + \dots + 20u - 11) $
c_6	$(u^{17} - u^{16} + \dots - u + 1)(u^{76} + 2u^{75} + \dots - 3u - 1)$
c_7	$(u^{17} + 3u^{16} + \dots - 3u - 1)(u^{76} - 27u^{74} + \dots + 87u + 89)$
<i>C</i> ₈	$(u^{17} + 4u^{14} + \dots - 8u + 1)(u^{76} + u^{75} + \dots - 656u - 71)$
<i>c</i> 9	$(u^{17} - 10u^{15} + \dots - 4u - 1)(u^{76} - u^{75} + \dots + 20u - 11)$
c_{10}	$(u^{17} - 3u^{16} + \dots - 3u + 1)(u^{76} - 27u^{74} + \dots + 87u + 89)$
c_{11}	$(u^{17} - 3u^{16} + \dots + 3u - 1)(u^{76} - 2u^{75} + \dots - 9u + 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} - 8y^{15} + \dots + 12y - 1)(y^{76} + 7y^{75} + \dots - 193744y + 64)$
c_2, c_6	$(y^{17} + 11y^{16} + \dots - 11y - 1)(y^{76} + 38y^{75} + \dots + 9y + 1)$
c_3,c_{11}	$(y^{17} + 7y^{16} + \dots - 11y - 1)(y^{76} + 38y^{75} + \dots - 35y + 1)$
c_4,c_5,c_9	$(y^{17} - 20y^{16} + \dots + 20y - 1)(y^{76} - 77y^{75} + \dots - 1918y + 121)$
c_7, c_{10}	$(y^{17} - 17y^{16} + \dots + 13y - 1)(y^{76} - 54y^{75} + \dots - 315687y + 7921)$
<i>C</i> ₈	$(y^{17} + 12y^{14} + \dots + 64y - 1)(y^{76} + 3y^{75} + \dots + 35282y + 5041)$