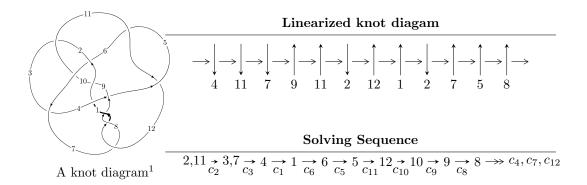
$12n_{0713} \ (K12n_{0713})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 2.57826 \times 10^{217} u^{63} - 3.05321 \times 10^{217} u^{62} + \dots + 2.05878 \times 10^{220} b - 1.16715 \times 10^{221}, \\ &1.17201 \times 10^{218} u^{63} + 2.06381 \times 10^{219} u^{62} + \dots + 8.44100 \times 10^{221} a + 2.64039 \times 10^{222}, \\ &u^{64} + 38 u^{62} + \dots - 3396 u + 328 \rangle \\ I_2^u &= \langle -363987470832210 u^{18} + 225606528026540 u^{17} + \dots + 4316043181765921 b - 66280635064865, \\ &7.51222 \times 10^{15} u^{18} - 5.60654 \times 10^{15} u^{17} + \dots + 3.88444 \times 10^{16} a + 1.80154 \times 10^{16}, \ u^{19} - u^{18} + \dots + 5u - 9 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 83 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.
$$I_1^u = \langle 2.58 \times 10^{217} u^{63} - 3.05 \times 10^{217} u^{62} + \dots + 2.06 \times 10^{220} b - 1.17 \times 10^{221}, \ 1.17 \times 10^{218} u^{63} + 2.06 \times 10^{219} u^{62} + \dots + 8.44 \times 10^{221} a + 2.64 \times 10^{222}, \ u^{64} + 38 u^{62} + \dots - 3396 u + 328 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_2 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_3 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_7 = \begin{pmatrix} -0.000138847u^{63} - 0.00244499u^{62} + \cdots + 21.3318u - 3.12805 \\ -0.00125233u^{63} + 0.00148302u^{62} + \cdots - 41.5747u + 5.66913 \end{pmatrix} \\ a_4 = \begin{pmatrix} -0.00791855u^{63} + 0.00212409u^{62} + \cdots - 118.662u + 14.1417 \\ -0.00457474u^{63} - 0.000971202u^{62} + \cdots - 26.4167u + 2.01978 \end{pmatrix} \\ a_1 = \begin{pmatrix} -0.0135367u^{63} - 0.00367954u^{62} + \cdots - 88.7259u + 10.0079 \\ -0.00159543u^{63} - 0.00175310u^{62} + \cdots + 22.4981u - 3.38442 \end{pmatrix} \\ a_6 = \begin{pmatrix} -0.00139117u^{63} - 0.000961969u^{62} + \cdots - 20.2429u + 2.54108 \\ -0.00125233u^{63} + 0.00148302u^{62} + \cdots - 41.5747u + 5.66913 \end{pmatrix} \\ a_5 = \begin{pmatrix} -0.00139117u^{63} - 0.000961969u^{62} + \cdots - 20.2429u + 2.54108 \\ -0.00238057u^{63} + 0.000801163u^{62} + \cdots - 44.3852u + 5.98465 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0.0251528u^{63} + 0.00622070u^{62} + \cdots + 174.801u - 20.8026 \\ 0.000927416u^{63} + 0.000804470u^{62} + \cdots - 5.52337u + 0.525490 \end{pmatrix} \\ a_{10} = \begin{pmatrix} -0.0230195u^{63} - 0.00337024u^{62} + \cdots + 10.8548u - 1.49184 \end{pmatrix} \\ a_9 = \begin{pmatrix} -0.0243719u^{63} - 0.00467049u^{62} + \cdots + 10.8548u - 1.49184 \\ -0.00135242u^{63} - 0.00130024u^{62} + \cdots + 10.8548u - 1.49184 \end{pmatrix} \\ a_9 = \begin{pmatrix} -0.0159602u^{63} - 0.004467049u^{62} + \cdots + 10.8548u - 1.49184 \\ -0.00159602u^{63} - 0.004467049u^{62} + \cdots + 10.8548u - 1.49184 \end{pmatrix} \\ a_8 = \begin{pmatrix} -0.0159602u^{63} - 0.004464679u^{62} + \cdots + 10.8548u - 1.49184 \\ -0.000210627u^{63} + 0.000910006u^{62} + \cdots + 10.8548u - 1.49184 \end{pmatrix} \\ -0.000210627u^{63} + 0.000910006u^{62} + \cdots + 10.8548u - 1.49184 \end{pmatrix} \\ a_8 = \begin{pmatrix} -0.0159602u^{63} - 0.004464679u^{62} + \cdots + 10.8548u - 1.49184 \\ -0.000210627u^{63} + 0.000910006u^{62} + \cdots + 23.7656u + 3.66319 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.0161918u^{63} 0.00558987u^{62} + \cdots + 220.422u 20.8374$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{64} - 7u^{63} + \dots - 2062u + 473$
c_2	$u^{64} + 38u^{62} + \dots + 3396u + 328$
<i>c</i> ₃	$u^{64} - 3u^{63} + \dots - 1741810u - 196291$
C ₄	$u^{64} + 3u^{63} + \dots - 160u - 64$
c_5,c_{11}	$u^{64} + 13u^{62} + \dots - 400u + 44$
<i>C</i> ₆	$u^{64} + u^{63} + \dots + 6587u + 761$
c_7, c_8, c_{12}	$u^{64} + 2u^{63} + \dots - 14u - 1$
<i>c</i> ₉	$u^{64} - u^{63} + \dots - 132u - 4$
c_{10}	$u^{64} + u^{63} + \dots - 1769u + 1279$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{64} + 25y^{63} + \dots + 9011076y + 223729$
c_2	$y^{64} + 76y^{63} + \dots + 188592y + 107584$
<i>c</i> ₃	$y^{64} + 51y^{63} + \dots - 510208710782y + 38530156681$
c_4	$y^{64} - 11y^{63} + \dots - 87040y + 4096$
c_5, c_{11}	$y^{64} + 26y^{63} + \dots + 49616y + 1936$
<i>c</i> ₆	$y^{64} + 69y^{63} + \dots + 3038519y + 579121$
c_7, c_8, c_{12}	$y^{64} - 66y^{63} + \dots - 16y + 1$
<i>c</i> ₉	$y^{64} + 17y^{63} + \dots - 3936y + 16$
c_{10}	$y^{64} - 87y^{63} + \dots - 27241069y + 1635841$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.335462 + 0.960170I		
a = 0.595539 + 0.682559I	0.911770 - 1.032120I	10.14320 + 0.I
b = -0.963148 - 0.475228I		
u = -0.335462 - 0.960170I		
a = 0.595539 - 0.682559I	0.911770 + 1.032120I	10.14320 + 0.I
b = -0.963148 + 0.475228I		
u = 0.947399 + 0.407862I		
a = 0.338537 + 0.167075I	-1.74827 - 1.26516I	0
b = 0.248342 + 0.496214I		
u = 0.947399 - 0.407862I		
a = 0.338537 - 0.167075I	-1.74827 + 1.26516I	0
b = 0.248342 - 0.496214I		
u = -0.083732 + 0.833478I		
a = 1.045740 - 0.072964I	3.87313 + 2.36028I	5.21332 - 3.90932I
b = 0.415317 - 0.555202I		
u = -0.083732 - 0.833478I		
a = 1.045740 + 0.072964I	3.87313 - 2.36028I	5.21332 + 3.90932I
b = 0.415317 + 0.555202I		
u = -0.274944 + 0.772279I		
a = 0.790148 + 0.696555I	3.41888 + 3.02488I	6.95291 - 3.41925I
b = 0.900831 - 0.923664I		
u = -0.274944 - 0.772279I		
a = 0.790148 - 0.696555I	3.41888 - 3.02488I	6.95291 + 3.41925I
b = 0.900831 + 0.923664I		
u = 0.075179 + 0.799821I		
a = 0.467257 - 0.575187I	-0.99222 - 4.14641I	3.23080 + 6.97746I
b = -1.259260 - 0.113697I		
u = 0.075179 - 0.799821I		
a = 0.467257 + 0.575187I	-0.99222 + 4.14641I	3.23080 - 6.97746I
b = -1.259260 + 0.113697I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.413467 + 1.150880I		
a = 0.144937 - 1.402750I	8.44712 - 3.02698I	0
b = -0.04335 + 1.55505I		
u = 0.413467 - 1.150880I		
a = 0.144937 + 1.402750I	8.44712 + 3.02698I	0
b = -0.04335 - 1.55505I		
u = 0.040362 + 0.770178I		
a = 0.243807 + 0.579784I	4.98892 + 8.36284I	6.61798 - 6.58755I
b = -1.365740 + 0.360315I		
u = 0.040362 - 0.770178I		
a = 0.243807 - 0.579784I	4.98892 - 8.36284I	6.61798 + 6.58755I
b = -1.365740 - 0.360315I		
u = 0.642406 + 0.395793I		
a = 0.539832 + 0.618893I	-1.72328 - 1.35345I	2.84079 + 5.01791I
b = 0.406004 + 0.585662I		
u = 0.642406 - 0.395793I		
a = 0.539832 - 0.618893I	-1.72328 + 1.35345I	2.84079 - 5.01791I
b = 0.406004 - 0.585662I		
u = -1.24948		
a = 0.543935	2.44452	0
b = 0.299788		
u = -0.647244 + 0.349890I		
a = -1.55678 + 1.74713I	3.51271 - 6.62719I	6.97914 + 1.82931I
b = 0.254178 - 0.482779I		
u = -0.647244 - 0.349890I		
a = -1.55678 - 1.74713I	3.51271 + 6.62719I	6.97914 - 1.82931I
b = 0.254178 + 0.482779I		
u = -1.313910 + 0.215826I		
a = -0.220902 + 0.147842I	-1.70737 + 4.39848I	0
b = 0.039760 - 0.791805I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.313910 - 0.215826I		
a = -0.220902 - 0.147842I	-1.70737 - 4.39848I	0
b = 0.039760 + 0.791805I		
u = -1.002620 + 0.901051I		
a = 0.650289 - 0.114573I	2.48875 + 1.68278I	0
b = 0.489302 - 0.434084I		
u = -1.002620 - 0.901051I		
a = 0.650289 + 0.114573I	2.48875 - 1.68278I	0
b = 0.489302 + 0.434084I		
u = 0.21372 + 1.41112I		
a = -0.482160 + 1.217250I	6.23466 - 0.00352I	0
b = 0.00954 - 1.79768I		
u = 0.21372 - 1.41112I		
a = -0.482160 - 1.217250I	6.23466 + 0.00352I	0
b = 0.00954 + 1.79768I		
u = -0.329023 + 0.401985I		
a = 0.975551 + 0.406906I	1.055720 - 0.384090I	8.69250 + 1.65178I
b = -0.291314 + 0.190827I		
u = -0.329023 - 0.401985I		
a = 0.975551 - 0.406906I	1.055720 + 0.384090I	8.69250 - 1.65178I
b = -0.291314 - 0.190827I		
u = -0.513200		
a = 0.799271	1.44268	14.7350
b = 1.40728		
u = -0.45260 + 1.42133I		
a = -0.683739 - 1.056290I	11.76650 + 4.51689I	0
b = 0.08781 + 1.76465I		
u = -0.45260 - 1.42133I		
a = -0.683739 + 1.056290I	11.76650 - 4.51689I	0
b = 0.08781 - 1.76465I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.204121 + 0.364148I		
a = 1.076330 - 0.192389I	-1.66720 - 0.88112I	-0.76201 - 1.29100I
b = 0.905084 + 0.351582I		
u = 0.204121 - 0.364148I		
a = 1.076330 + 0.192389I	-1.66720 + 0.88112I	-0.76201 + 1.29100I
b = 0.905084 - 0.351582I		
u = 1.58492 + 0.27627I		
a = -0.296423 - 0.332935I	4.76022 - 7.21958I	0
b = -0.051364 + 0.836910I		
u = 1.58492 - 0.27627I		
a = -0.296423 + 0.332935I	4.76022 + 7.21958I	0
b = -0.051364 - 0.836910I		
u = 0.291913 + 0.225982I		
a = -3.00732 - 2.80629I	-2.93293 + 3.01950I	3.23967 - 1.03009I
b = 0.436516 + 0.467769I		
u = 0.291913 - 0.225982I		
a = -3.00732 + 2.80629I	-2.93293 - 3.01950I	3.23967 + 1.03009I
b = 0.436516 - 0.467769I		
u = 0.192418 + 0.305935I		
a = 1.86300 - 1.16501I	7.58427 + 2.24555I	8.62267 - 0.85529I
b = -0.457918 - 0.710588I		
u = 0.192418 - 0.305935I		
a = 1.86300 + 1.16501I	7.58427 - 2.24555I	8.62267 + 0.85529I
b = -0.457918 + 0.710588I		
u = 0.01286 + 1.66235I		
a = -0.251779 - 1.041480I	7.78730 - 4.22834I	0
b = 0.03327 + 1.75492I		
u = 0.01286 - 1.66235I		
a = -0.251779 + 1.041480I	7.78730 + 4.22834I	0
b = 0.03327 - 1.75492I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.39994 + 1.64387I		
a = 0.177619 - 0.870097I	2.98425 - 4.18476I	0
b = 0.38697 + 1.58361I		
u = 0.39994 - 1.64387I		
a = 0.177619 + 0.870097I	2.98425 + 4.18476I	0
b = 0.38697 - 1.58361I		
u = 0.283207 + 0.080826I		
a = -1.44066 - 3.30718I	-1.97533 + 1.42210I	0.91620 - 6.10321I
b = 0.589344 - 0.669131I		
u = 0.283207 - 0.080826I		
a = -1.44066 + 3.30718I	-1.97533 - 1.42210I	0.91620 + 6.10321I
b = 0.589344 + 0.669131I		
u = 0.24314 + 1.68834I		
a = 0.056309 + 1.169580I	5.49499 - 5.40830I	0
b = -0.58798 - 1.65311I		
u = 0.24314 - 1.68834I		
a = 0.056309 - 1.169580I	5.49499 + 5.40830I	0
b = -0.58798 + 1.65311I		
u = -0.16084 + 1.73860I		
a = 0.230933 + 0.972132I	4.47021 + 1.14177I	0
b = 0.307850 - 1.361670I		
u = -0.16084 - 1.73860I		
a = 0.230933 - 0.972132I	4.47021 - 1.14177I	0
b = 0.307850 + 1.361670I		
u = -0.67469 + 1.61833I		
a = 0.214372 + 1.071080I	5.14768 + 3.33362I	0
b = 0.09629 - 1.53447I		
u = -0.67469 - 1.61833I		
a = 0.214372 - 1.071080I	5.14768 - 3.33362I	0
b = 0.09629 + 1.53447I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.49546 + 1.71265I		
a = 0.092150 + 0.806725I	8.17146 + 6.66450I	0
b = 0.36691 - 1.75692I		
u = -0.49546 - 1.71265I		
a = 0.092150 - 0.806725I	8.17146 - 6.66450I	0
b = 0.36691 + 1.75692I		
u = -0.43824 + 1.74966I		
a = -0.035433 - 1.125870I	5.15081 + 11.10080I	0
b = -0.53312 + 1.71047I		
u = -0.43824 - 1.74966I		
a = -0.035433 + 1.125870I	5.15081 - 11.10080I	0
b = -0.53312 - 1.71047I		
u = 0.07921 + 1.82792I		
a = 0.167616 - 1.054340I	13.45120 + 1.32917I	0
b = -0.53046 + 1.46401I		
u = 0.07921 - 1.82792I		
a = 0.167616 + 1.054340I	13.45120 - 1.32917I	0
b = -0.53046 - 1.46401I		
u = 0.05911 + 1.89435I		
a = -0.290232 + 0.899724I	14.7249 + 6.6669I	0
b = 0.02290 - 1.79203I		
u = 0.05911 - 1.89435I		
a = -0.290232 - 0.899724I	14.7249 - 6.6669I	0
b = 0.02290 + 1.79203I		
u = 0.54843 + 1.85229I		
a = -0.061480 + 1.071260I	11.8878 - 15.3498I	0
b = -0.49609 - 1.73014I		
u = 0.54843 - 1.85229I		
a = -0.061480 - 1.071260I	11.8878 + 15.3498I	0
b = -0.49609 + 1.73014I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.91204 + 1.79319I		
a = 0.271605 - 1.004440I	10.63020 - 4.22345I	0
b = 0.10036 + 1.51621I		
u = 0.91204 - 1.79319I		
a = 0.271605 + 1.004440I	10.63020 + 4.22345I	0
b = 0.10036 - 1.51621I		
u = -0.05374 + 2.23789I		
a = 0.164957 - 1.018210I	12.37100 - 0.19756I	0
b = 0.129617 + 1.231340I		
u = -0.05374 - 2.23789I		
a = 0.164957 + 1.018210I	12.37100 + 0.19756I	0
b = 0.129617 - 1.231340I		

II.

 $\begin{array}{l} I_2^u = \langle -3.64 \times 10^{14} u^{18} + 2.26 \times 10^{14} u^{17} + \cdots + 4.32 \times 10^{15} b - 6.63 \times 10^{13}, \ 7.51 \times 10^{15} u^{18} - 5.61 \times 10^{15} u^{17} + \cdots + 3.88 \times 10^{16} a + 1.80 \times 10^{16}, \ u^{19} - u^{18} + \cdots + 5u - 9 \rangle \end{array}$

(i) Arc colorings

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

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

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

$$a_{7} = \begin{pmatrix} -0.193393u^{18} + 0.144333u^{17} + \dots - 2.35275u - 0.463784 \\ 0.0843336u^{18} - 0.0522716u^{17} + \dots + 0.789469u + 0.0153568) \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 0.109059u^{18} - 0.0920616u^{17} + \dots + 1.56328u + 2.44843 \\ -0.0485297u^{18} + 0.110929u^{17} + \dots - 0.896544u + 0.847023) \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.192472u^{18} - 0.326504u^{17} + \dots + 2.51451u - 1.68558 \\ -0.0459865u^{18} - 0.101011u^{17} + \dots + 0.541386u - 1.38026) \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.0843336u^{18} - 0.0522716u^{17} + \dots + 0.789469u + 0.0153568 \\ 0.0843336u^{18} - 0.0522716u^{17} + \dots + 0.789469u + 0.0153568 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.00205396u^{18} + 0.0920616u^{17} + \dots - 1.56328u - 0.448427 \\ 0.0358039u^{18} + 0.0526445u^{17} + \dots - 0.107076u - 0.137620 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.00205396u^{18} + 0.179383u^{17} + \dots - 2.72735u + 1.54621 \\ 0.187705u^{18} + 0.0524445u^{17} + \dots + 0.697793u + 2.93670 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.151338u^{18} - 0.164905u^{17} + \dots + 2.78710u + 0.861192 \\ -0.0419331u^{18} - 0.0288332u^{17} + \dots + 1.52675u - 1.10364 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.109405u^{18} - 0.193738u^{17} + \dots + 4.31384u - 0.242445 \\ -0.0419331u^{18} - 0.0288332u^{17} + \dots + 1.52675u - 1.10364 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 0.112709u^{18} + 0.299193u^{17} + \dots + 0.648882u + 2.74600 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{19} - 6u^{18} + \dots + 3u - 1$
c_2	$u^{19} - u^{18} + \dots + 5u - 9$
c_3	$u^{19} + 2u^{18} + \dots + 15u - 9$
c_4	$u^{19} + u^{17} + \dots + u + 1$
c_5	$u^{19} - u^{18} + \dots - 22u^2 - 4$
	$u^{19} + 4u^{18} + \dots - 2u + 1$
c_{7}, c_{8}	$u^{19} + u^{18} + \dots + 3u + 1$
<i>c</i> ₉	$u^{19} - u^{17} + \dots + 4u + 4$
c_{10}	$u^{19} + 2u^{18} + \dots + 4u + 1$
c_{11}	$u^{19} + u^{18} + \dots + 22u^2 + 4$
c_{12}	$u^{19} - u^{18} + \dots + 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} + 6y^{18} + \dots - 7y - 1$
c_2	$y^{19} + 13y^{18} + \dots + 439y - 81$
c_3	$y^{19} + 20y^{18} + \dots - 405y - 81$
c_4	$y^{19} + 2y^{18} + \dots + y - 1$
c_5, c_{11}	$y^{19} + 15y^{18} + \dots - 176y - 16$
<i>C</i> ₆	$y^{19} + 10y^{18} + \dots + 10y - 1$
c_7, c_8, c_{12}	$y^{19} - 21y^{18} + \dots - 11y - 1$
<i>c</i> ₉	$y^{19} - 2y^{18} + \dots + 96y - 16$
c_{10}	$y^{19} - 14y^{18} + \dots + 30y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.389083 + 0.971159I		
a = -0.277741 + 0.595285I	0.46032 + 1.43826I	-0.20028 - 4.42405I
b = 0.932245 - 0.473799I		
u = 0.389083 - 0.971159I		
a = -0.277741 - 0.595285I	0.46032 - 1.43826I	-0.20028 + 4.42405I
b = 0.932245 + 0.473799I		
u = -0.800104 + 0.507328I		
a = 0.388644 - 0.220349I	-2.27973 + 1.36896I	-12.95881 - 5.08171I
b = 0.710720 - 0.420295I		
u = -0.800104 - 0.507328I		
a = 0.388644 + 0.220349I	-2.27973 - 1.36896I	-12.95881 + 5.08171I
b = 0.710720 + 0.420295I		
u = -0.914926 + 0.042064I		
a = 0.09423 + 1.49670I	2.77115 - 7.45545I	1.04337 + 6.84145I
b = -0.539979 - 0.327295I		
u = -0.914926 - 0.042064I		
a = 0.09423 - 1.49670I	2.77115 + 7.45545I	1.04337 - 6.84145I
b = -0.539979 + 0.327295I		
u = 0.947057 + 0.591059I		
a = 0.473404 + 0.014503I	2.33987 - 2.91659I	-0.25529 + 5.05539I
b = 0.810839 + 0.917232I		
u = 0.947057 - 0.591059I		
a = 0.473404 - 0.014503I	2.33987 + 2.91659I	-0.25529 - 5.05539I
b = 0.810839 - 0.917232I		
u = 0.818159		
a = 0.221354	1.07163	-8.02200
b = 1.21245		
u = -0.555367 + 0.570698I		
a = 1.55276 - 0.46301I	-1.79164 - 0.64199I	4.02276 - 3.01754I
b = -0.470414 - 0.688016I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.555367 - 0.570698I		
a = 1.55276 + 0.46301I	-1.79164 + 0.64199I	4.02276 + 3.01754I
b = -0.470414 + 0.688016I		
u = 0.699603 + 0.245787I		
a = 0.80766 + 1.51414I	-3.49065 - 3.76561I	-3.11008 + 7.06177I
b = -0.486775 + 0.028785I		
u = 0.699603 - 0.245787I		
a = 0.80766 - 1.51414I	-3.49065 + 3.76561I	-3.11008 - 7.06177I
b = -0.486775 - 0.028785I		
u = 0.70448 + 1.41196I		
a = 0.305323 - 0.963046I	9.00068 - 4.71241I	5.89823 + 4.68766I
b = 0.00641 + 1.66974I		
u = 0.70448 - 1.41196I		
a = 0.305323 + 0.963046I	9.00068 + 4.71241I	5.89823 - 4.68766I
b = 0.00641 - 1.66974I		
u = -0.47470 + 1.61232I		
a = 0.160463 + 1.124330I	5.05062 + 2.83722I	3.41245 + 2.37831I
b = 0.17424 - 1.56147I		
u = -0.47470 - 1.61232I		
a = 0.160463 - 1.124330I	5.05062 - 2.83722I	3.41245 - 2.37831I
b = 0.17424 + 1.56147I		
u = 0.09579 + 2.08758I		
a = -0.004309 - 1.065310I	12.07760 - 1.14448I	4.65867 + 5.51636I
b = 0.256494 + 1.250070I		
u = 0.09579 - 2.08758I		
a = -0.004309 + 1.065310I	12.07760 + 1.14448I	4.65867 - 5.51636I
b = 0.256494 - 1.250070I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{19} - 6u^{18} + \dots + 3u - 1)(u^{64} - 7u^{63} + \dots - 2062u + 473) \right $
c_2	$(u^{19} - u^{18} + \dots + 5u - 9)(u^{64} + 38u^{62} + \dots + 3396u + 328)$
c_3	$(u^{19} + 2u^{18} + \dots + 15u - 9)(u^{64} - 3u^{63} + \dots - 1741810u - 196291)$
c_4	$ (u^{19} + u^{17} + \dots + u + 1)(u^{64} + 3u^{63} + \dots - 160u - 64) $
c_5	$ (u^{19} - u^{18} + \dots - 22u^2 - 4)(u^{64} + 13u^{62} + \dots - 400u + 44) $
c_6	$ (u^{19} + 4u^{18} + \dots - 2u + 1)(u^{64} + u^{63} + \dots + 6587u + 761) $
c_7, c_8	$(u^{19} + u^{18} + \dots + 3u + 1)(u^{64} + 2u^{63} + \dots - 14u - 1)$
<i>c</i> ₉	$(u^{19} - u^{17} + \dots + 4u + 4)(u^{64} - u^{63} + \dots - 132u - 4)$
c_{10}	$(u^{19} + 2u^{18} + \dots + 4u + 1)(u^{64} + u^{63} + \dots - 1769u + 1279)$
c_{11}	$(u^{19} + u^{18} + \dots + 22u^2 + 4)(u^{64} + 13u^{62} + \dots - 400u + 44)$
c_{12}	$(u^{19} - u^{18} + \dots + 3u - 1)(u^{64} + 2u^{63} + \dots - 14u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{19} + 6y^{18} + \dots - 7y - 1)(y^{64} + 25y^{63} + \dots + 9011076y + 223729)$
c_2	$(y^{19} + 13y^{18} + \dots + 439y - 81)$ $\cdot (y^{64} + 76y^{63} + \dots + 188592y + 107584)$
<i>c</i> ₃	$(y^{19} + 20y^{18} + \dots - 405y - 81)$ $\cdot (y^{64} + 51y^{63} + \dots - 510208710782y + 38530156681)$
c_4	$(y^{19} + 2y^{18} + \dots + y - 1)(y^{64} - 11y^{63} + \dots - 87040y + 4096)$
c_5, c_{11}	$(y^{19} + 15y^{18} + \dots - 176y - 16)(y^{64} + 26y^{63} + \dots + 49616y + 1936)$
<i>c</i> ₆	$(y^{19} + 10y^{18} + \dots + 10y - 1)$ $\cdot (y^{64} + 69y^{63} + \dots + 3038519y + 579121)$
c_7, c_8, c_{12}	$(y^{19} - 21y^{18} + \dots - 11y - 1)(y^{64} - 66y^{63} + \dots - 16y + 1)$
<i>C</i> 9	$(y^{19} - 2y^{18} + \dots + 96y - 16)(y^{64} + 17y^{63} + \dots - 3936y + 16)$
c_{10}	$(y^{19} - 14y^{18} + \dots + 30y - 1)$ $\cdot (y^{64} - 87y^{63} + \dots - 27241069y + 1635841)$