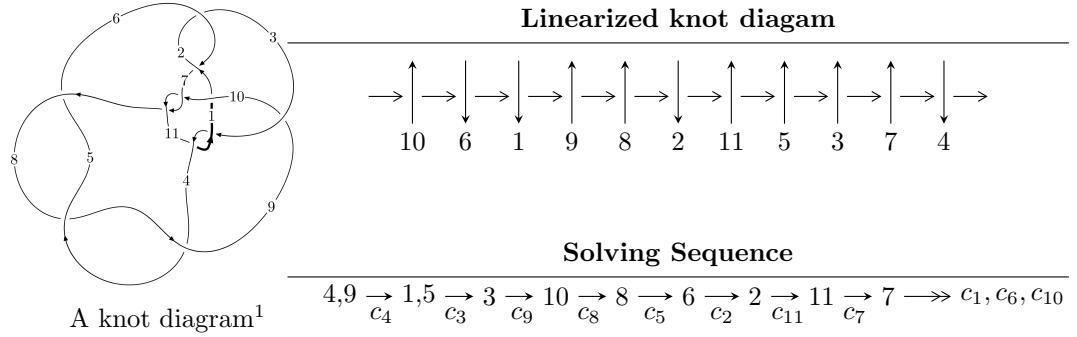


$11a_{331}$ ($K11a_{331}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 8.54894 \times 10^{95} u^{73} + 1.55407 \times 10^{96} u^{72} + \dots + 2.00526 \times 10^{96} b - 1.27828 \times 10^{97}, \\ - 2.74832 \times 10^{97} u^{73} - 4.48394 \times 10^{97} u^{72} + \dots + 9.42470 \times 10^{97} a - 1.70641 \times 10^{99}, \\ u^{74} + 3u^{73} + \dots + 209u + 47 \rangle$$

$$I_2^u = \langle u^{15} + 3u^{14} + \dots + b + 2, -u^{15} - 2u^{14} + \dots + a + 1, u^{17} + 2u^{16} + \dots + 4u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 91 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.

$$\text{I. } I_1^u = \langle 8.55 \times 10^{95} u^{73} + 1.55 \times 10^{96} u^{72} + \dots + 2.01 \times 10^{96} b - 1.28 \times 10^{97}, -2.75 \times 10^{97} u^{73} - 4.48 \times 10^{97} u^{72} + \dots + 9.42 \times 10^{97} a - 1.71 \times 10^{99}, u^{74} + 3u^{73} + \dots + 209u + 47 \rangle$$

(i) **Arc colorings**

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.291608u^{73} + 0.475764u^{72} + \dots + 26.1433u + 18.1057 \\ -0.426327u^{73} - 0.774999u^{72} + \dots + 28.8321u + 6.37465 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.571268u^{73} + 1.64222u^{72} + \dots + 103.904u + 29.6284 \\ -0.233836u^{73} - 0.733389u^{72} + \dots - 35.5006u - 10.6620 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.160882u^{73} + 0.784015u^{72} + \dots + 215.233u + 63.4002 \\ -0.0885971u^{73} - 1.07134u^{72} + \dots - 178.043u - 55.1254 \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.756401u^{73} + 2.23671u^{72} + \dots + 147.047u + 42.9701 \\ -0.261940u^{73} - 0.983478u^{72} + \dots - 64.0355u - 19.0821 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.134719u^{73} - 0.299235u^{72} + \dots + 54.9754u + 24.4804 \\ -0.426327u^{73} - 0.774999u^{72} + \dots + 28.8321u + 6.37465 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.303078u^{73} + 0.404458u^{72} + \dots - 35.9491u - 18.0658 \\ -0.240564u^{73} - 0.355060u^{72} + \dots + 2.22918u - 2.45974 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0.303078u^{73} + 0.404458u^{72} + \dots - 35.9491u - 18.0658 \\ -0.240564u^{73} - 0.355060u^{72} + \dots + 2.22918u - 2.45974 \end{pmatrix}$$

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

(iii) **Cusp Shapes** = $-0.681636u^{73} - 3.18822u^{72} + \dots - 172.342u - 53.5504$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{74} + 3u^{73} + \cdots + 59049u + 17047$
c_2, c_6	$u^{74} + 2u^{73} + \cdots - 349u - 241$
c_3, c_{11}	$u^{74} - 4u^{73} + \cdots + 578u - 28$
c_4, c_5, c_8	$u^{74} + 3u^{73} + \cdots + 209u + 47$
c_7, c_{10}	$u^{74} - 29u^{72} + \cdots + 4312u - 2881$
c_9	$u^{74} - u^{73} + \cdots - 2616u + 589$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{74} - 33y^{73} + \cdots - 6606862717y + 290600209$
c_2, c_6	$y^{74} + 50y^{73} + \cdots - 32631y + 58081$
c_3, c_{11}	$y^{74} + 46y^{73} + \cdots - 79788y + 784$
c_4, c_5, c_8	$y^{74} + 69y^{73} + \cdots - 23847y + 2209$
c_7, c_{10}	$y^{74} - 58y^{73} + \cdots - 75786956y + 8300161$
c_9	$y^{74} - 9y^{73} + \cdots - 10759128y + 346921$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.729537 + 0.676863I$		
$a = 0.868679 + 0.880701I$	$4.14808 - 0.48807I$	0
$b = -0.163050 - 1.175520I$		
$u = 0.729537 - 0.676863I$		
$a = 0.868679 - 0.880701I$	$4.14808 + 0.48807I$	0
$b = -0.163050 + 1.175520I$		
$u = -0.977426 + 0.331531I$		
$a = 0.19408 - 1.78945I$	$9.2153 - 11.1163I$	0
$b = 0.495934 + 1.306620I$		
$u = -0.977426 - 0.331531I$		
$a = 0.19408 + 1.78945I$	$9.2153 + 11.1163I$	0
$b = 0.495934 - 1.306620I$		
$u = -0.943528 + 0.160031I$		
$a = 0.306495 - 1.369660I$	$3.11842 + 2.09291I$	0
$b = -0.498139 + 0.748835I$		
$u = -0.943528 - 0.160031I$		
$a = 0.306495 + 1.369660I$	$3.11842 - 2.09291I$	0
$b = -0.498139 - 0.748835I$		
$u = 0.906285 + 0.046309I$		
$a = 0.37149 + 1.58844I$	$2.31155 + 0.31959I$	$6.67473 + 1.17791I$
$b = 0.058387 - 0.883000I$		
$u = 0.906285 - 0.046309I$		
$a = 0.37149 - 1.58844I$	$2.31155 - 0.31959I$	$6.67473 - 1.17791I$
$b = 0.058387 + 0.883000I$		
$u = 0.795743 + 0.391782I$		
$a = -0.33233 - 1.66140I$	$4.98505 + 5.49905I$	$7.28766 - 5.67795I$
$b = -0.446696 + 1.338070I$		
$u = 0.795743 - 0.391782I$		
$a = -0.33233 + 1.66140I$	$4.98505 - 5.49905I$	$7.28766 + 5.67795I$
$b = -0.446696 - 1.338070I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.040289 + 1.123610I$		
$a = 1.53260 - 0.00979I$	$3.32334 + 3.24254I$	0
$b = 0.755296 - 0.806599I$		
$u = -0.040289 - 1.123610I$		
$a = 1.53260 + 0.00979I$	$3.32334 - 3.24254I$	0
$b = 0.755296 + 0.806599I$		
$u = 0.639752 + 0.538004I$		
$a = -0.48760 - 1.57150I$	$3.84856 - 1.30465I$	$7.86722 + 0.I$
$b = 0.366420 + 1.022380I$		
$u = 0.639752 - 0.538004I$		
$a = -0.48760 + 1.57150I$	$3.84856 + 1.30465I$	$7.86722 + 0.I$
$b = 0.366420 - 1.022380I$		
$u = 0.000251 + 1.184520I$		
$a = -1.98927 - 1.08115I$	$2.78997 - 3.49775I$	0
$b = -0.096365 + 0.840334I$		
$u = 0.000251 - 1.184520I$		
$a = -1.98927 + 1.08115I$	$2.78997 + 3.49775I$	0
$b = -0.096365 - 0.840334I$		
$u = -0.159658 + 1.194760I$		
$a = -0.089269 + 0.550066I$	$6.20327 - 3.01035I$	0
$b = 0.29274 - 1.69325I$		
$u = -0.159658 - 1.194760I$		
$a = -0.089269 - 0.550066I$	$6.20327 + 3.01035I$	0
$b = 0.29274 + 1.69325I$		
$u = -0.546934 + 0.540048I$		
$a = -0.27605 - 1.72599I$	$4.14609 + 2.20221I$	$4.65992 + 1.32874I$
$b = 0.276972 + 0.159839I$		
$u = -0.546934 - 0.540048I$		
$a = -0.27605 + 1.72599I$	$4.14609 - 2.20221I$	$4.65992 - 1.32874I$
$b = 0.276972 - 0.159839I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.107310 + 1.251050I$		
$a = 0.06868 - 1.71275I$	$5.33288 + 0.16111I$	0
$b = -0.03954 + 1.50942I$		
$u = -0.107310 - 1.251050I$		
$a = 0.06868 + 1.71275I$	$5.33288 - 0.16111I$	0
$b = -0.03954 - 1.50942I$		
$u = 0.643915 + 0.344718I$		
$a = 0.68185 + 2.68762I$	$4.28355 + 5.31590I$	$8.32121 - 6.98455I$
$b = 0.339896 - 1.158020I$		
$u = 0.643915 - 0.344718I$		
$a = 0.68185 - 2.68762I$	$4.28355 - 5.31590I$	$8.32121 + 6.98455I$
$b = 0.339896 + 1.158020I$		
$u = -0.672302 + 0.275487I$		
$a = -0.463214 + 0.218192I$	$5.09446 - 5.88932I$	$7.14918 + 5.98042I$
$b = 0.994473 + 0.038479I$		
$u = -0.672302 - 0.275487I$		
$a = -0.463214 - 0.218192I$	$5.09446 + 5.88932I$	$7.14918 - 5.98042I$
$b = 0.994473 - 0.038479I$		
$u = 0.534184 + 0.471782I$		
$a = -0.203180 + 0.429819I$	$1.09531 + 1.83562I$	$2.55599 - 4.19616I$
$b = 0.568753 + 0.043415I$		
$u = 0.534184 - 0.471782I$		
$a = -0.203180 - 0.429819I$	$1.09531 - 1.83562I$	$2.55599 + 4.19616I$
$b = 0.568753 - 0.043415I$		
$u = -0.781242 + 1.028170I$		
$a = -0.589220 + 0.832021I$	$7.24129 + 5.12075I$	0
$b = 0.342776 - 1.173760I$		
$u = -0.781242 - 1.028170I$		
$a = -0.589220 - 0.832021I$	$7.24129 - 5.12075I$	0
$b = 0.342776 + 1.173760I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.162659 + 1.334780I$		
$a = -0.513861 - 0.136702I$	$-4.07205 + 2.16735I$	0
$b = -1.40639 - 0.48404I$		
$u = 0.162659 - 1.334780I$		
$a = -0.513861 + 0.136702I$	$-4.07205 - 2.16735I$	0
$b = -1.40639 + 0.48404I$		
$u = -0.077830 + 1.356390I$		
$a = 0.719009 - 0.826751I$	$-2.84114 + 0.89469I$	0
$b = 0.343236 + 0.909674I$		
$u = -0.077830 - 1.356390I$		
$a = 0.719009 + 0.826751I$	$-2.84114 - 0.89469I$	0
$b = 0.343236 - 0.909674I$		
$u = -0.173008 + 1.356910I$		
$a = -1.01178 + 1.02451I$	$-3.89386 - 4.74590I$	0
$b = -0.593612 - 1.233660I$		
$u = -0.173008 - 1.356910I$		
$a = -1.01178 - 1.02451I$	$-3.89386 + 4.74590I$	0
$b = -0.593612 + 1.233660I$		
$u = -0.605325 + 0.154014I$		
$a = 0.73564 - 1.74796I$	$9.24632 + 0.28330I$	$12.69819 + 0.63805I$
$b = 0.50294 + 1.38892I$		
$u = -0.605325 - 0.154014I$		
$a = 0.73564 + 1.74796I$	$9.24632 - 0.28330I$	$12.69819 - 0.63805I$
$b = 0.50294 - 1.38892I$		
$u = -0.243787 + 1.360410I$		
$a = 1.128220 - 0.271966I$	$4.42124 - 2.83103I$	0
$b = 0.755260 + 1.157050I$		
$u = -0.243787 - 1.360410I$		
$a = 1.128220 + 0.271966I$	$4.42124 + 2.83103I$	0
$b = 0.755260 - 1.157050I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.327994 + 1.351610I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.439710 - 1.149670I$	$-2.02174 + 4.04028I$	0
$b = -0.290077 + 1.121430I$		
$u = 0.327994 - 1.351610I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.439710 + 1.149670I$	$-2.02174 - 4.04028I$	0
$b = -0.290077 - 1.121430I$		
$u = -0.195271 + 1.386520I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -1.62301 - 0.11159I$	$3.52909 - 4.64112I$	0
$b = -0.143149 - 1.028900I$		
$u = -0.195271 - 1.386520I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -1.62301 + 0.11159I$	$3.52909 + 4.64112I$	0
$b = -0.143149 + 1.028900I$		
$u = -0.47948 + 1.33348I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.76428 + 1.24106I$	$-0.64736 - 7.35044I$	0
$b = -0.600996 - 0.993957I$		
$u = -0.47948 - 1.33348I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.76428 - 1.24106I$	$-0.64736 + 7.35044I$	0
$b = -0.600996 + 0.993957I$		
$u = -0.00514 + 1.42211I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.340891 + 0.208274I$	$-6.82153 + 0.92955I$	0
$b = -0.964892 + 0.318084I$		
$u = -0.00514 - 1.42211I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = -0.340891 - 0.208274I$	$-6.82153 - 0.92955I$	0
$b = -0.964892 - 0.318084I$		
$u = -0.30682 + 1.39309I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.0331436 - 0.1004190I$	$-1.97320 - 2.18673I$	0
$b = -0.778543 + 0.548393I$		
$u = -0.30682 - 1.39309I$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	
$a = 0.0331436 + 0.1004190I$	$-1.97320 + 2.18673I$	0
$b = -0.778543 - 0.548393I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.26985 + 1.40575I$		
$a = 0.280548 - 0.298110I$	$-0.26002 - 9.34220I$	0
$b = 1.265840 - 0.184891I$		
$u = -0.26985 - 1.40575I$		
$a = 0.280548 + 0.298110I$	$-0.26002 + 9.34220I$	0
$b = 1.265840 + 0.184891I$		
$u = 0.25598 + 1.42903I$		
$a = 1.10171 + 1.29179I$	$-1.37538 + 8.63536I$	0
$b = 0.429957 - 1.299690I$		
$u = 0.25598 - 1.42903I$		
$a = 1.10171 - 1.29179I$	$-1.37538 - 8.63536I$	0
$b = 0.429957 + 1.299690I$		
$u = 0.09320 + 1.45012I$		
$a = 0.367361 - 0.401509I$	$-3.23957 + 0.97155I$	0
$b = 0.570488 + 0.736664I$		
$u = 0.09320 - 1.45012I$		
$a = 0.367361 + 0.401509I$	$-3.23957 - 0.97155I$	0
$b = 0.570488 - 0.736664I$		
$u = 0.33909 + 1.42618I$		
$a = 0.897474 + 0.790587I$	$-2.65219 + 4.84548I$	0
$b = 0.412854 - 0.931526I$		
$u = 0.33909 - 1.42618I$		
$a = 0.897474 - 0.790587I$	$-2.65219 - 4.84548I$	0
$b = 0.412854 + 0.931526I$		
$u = 0.14497 + 1.48045I$		
$a = 0.308110 + 0.341335I$	$-5.30403 + 4.22277I$	0
$b = 0.732906 + 0.027438I$		
$u = 0.14497 - 1.48045I$		
$a = 0.308110 - 0.341335I$	$-5.30403 - 4.22277I$	0
$b = 0.732906 - 0.027438I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.480633 + 0.177328I$		
$a = -2.91872 + 1.85536I$	$8.59018 - 2.10885I$	$14.2741 + 3.7354I$
$b = -0.012937 - 1.270620I$		
$u = -0.480633 - 0.177328I$		
$a = -2.91872 - 1.85536I$	$8.59018 + 2.10885I$	$14.2741 - 3.7354I$
$b = -0.012937 + 1.270620I$		
$u = 0.31043 + 1.46205I$		
$a = -0.917093 - 0.764806I$	$-0.93880 + 9.51927I$	0
$b = -0.70775 + 1.34146I$		
$u = 0.31043 - 1.46205I$		
$a = -0.917093 + 0.764806I$	$-0.93880 - 9.51927I$	0
$b = -0.70775 - 1.34146I$		
$u = -0.38759 + 1.47330I$		
$a = 0.98510 - 1.03601I$	$3.4628 - 16.0068I$	0
$b = 0.64917 + 1.35397I$		
$u = -0.38759 - 1.47330I$		
$a = 0.98510 + 1.03601I$	$3.4628 + 16.0068I$	0
$b = 0.64917 - 1.35397I$		
$u = -0.463049 + 0.111626I$		
$a = 0.09477 + 2.83159I$	$0.80708 - 2.42495I$	$0.09499 + 4.46298I$
$b = -0.354673 - 1.019580I$		
$u = -0.463049 - 0.111626I$		
$a = 0.09477 - 2.83159I$	$0.80708 + 2.42495I$	$0.09499 - 4.46298I$
$b = -0.354673 + 1.019580I$		
$u = 0.437958$		
$a = 0.177670$	0.260961	17.7580
$b = -1.22248$		
$u = -0.024389 + 0.433644I$		
$a = 0.483657 + 0.315936I$	$-0.93889 + 1.06996I$	$-3.82834 - 4.75783I$
$b = -0.542238 + 0.411060I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.024389 - 0.433644I$		
$a = 0.483657 - 0.315936I$	$-0.93889 - 1.06996I$	$-3.82834 + 4.75783I$
$b = -0.542238 - 0.411060I$		
$u = 0.413553$		
$a = 1.39372$	1.01618	11.7030
$b = 0.0976025$		
$u = 0.13112 + 1.67227I$		
$a = 0.249215 + 0.136146I$	$-4.10246 + 2.99543I$	0
$b = 0.047190 - 0.821814I$		
$u = 0.13112 - 1.67227I$		
$a = 0.249215 - 0.136146I$	$-4.10246 - 2.99543I$	0
$b = 0.047190 + 0.821814I$		

$$I_2^u = \langle u^{15} + 3u^{14} + \dots + b + 2, -u^{15} - 2u^{14} + \dots + a + 1, u^{17} + 2u^{16} + \dots + 4u + 1 \rangle$$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^{15} + 2u^{14} + \dots + 2u - 1 \\ -u^{15} - 3u^{14} + \dots - 6u - 2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -2u^{16} - 4u^{15} + \dots - 12u^2 - u \\ 2u^{15} + 3u^{14} + \dots + 6u + 1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u^{16} - 3u^{15} + \dots - 7u^2 - u \\ 3u^{15} + 6u^{14} + \dots + 14u + 3 \end{pmatrix}$$

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

$$a_6 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -2u^{16} - 3u^{15} + \dots - 10u^2 + 3u \\ u^{15} + u^{14} + \dots + 6u + 1 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^{14} - 2u^{13} + \dots - 4u - 3 \\ -u^{15} - 3u^{14} + \dots - 6u - 2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^{16} + 3u^{15} + \dots + 8u + 4 \\ u^{16} + u^{15} + \dots + 4u + 1 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^{16} + 3u^{15} + \dots + 8u + 4 \\ u^{16} + u^{15} + \dots + 4u + 1 \end{pmatrix}$$

(ii) Obstruction class = 1

$$(iii) \text{ Cusp Shapes} = -u^{16} + u^{15} - 9u^{14} + 3u^{13} - 38u^{12} - 17u^{11} - 90u^{10} - 94u^9 - 121u^8 - 168u^7 - 101u^6 - 123u^5 - 74u^4 - 22u^3 - 43u^2 + 4u$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 6u^{16} + \cdots + 6u - 1$
c_2	$u^{17} + u^{16} + \cdots - 5u^2 - 1$
c_3	$u^{17} + 3u^{16} + \cdots + 3u + 1$
c_4, c_5	$u^{17} + 2u^{16} + \cdots + 4u + 1$
c_6	$u^{17} - u^{16} + \cdots + 5u^2 + 1$
c_7	$u^{17} - 3u^{16} + \cdots - u + 1$
c_8	$u^{17} - 2u^{16} + \cdots + 4u - 1$
c_9	$u^{17} - 8u^{14} + \cdots + 9u + 1$
c_{10}	$u^{17} + 3u^{16} + \cdots - u - 1$
c_{11}	$u^{17} - 3u^{16} + \cdots + 3u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 4y^{16} + \cdots + 12y - 1$
c_2, c_6	$y^{17} + 11y^{16} + \cdots - 10y - 1$
c_3, c_{11}	$y^{17} + 11y^{16} + \cdots - 11y - 1$
c_4, c_5, c_8	$y^{17} + 18y^{16} + \cdots + 6y - 1$
c_7, c_{10}	$y^{17} - 17y^{16} + \cdots + 15y - 1$
c_9	$y^{17} - 12y^{14} + \cdots + 55y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.917169 + 0.197212I$		
$a = 0.33537 - 1.51249I$	$1.91049 + 1.40877I$	$1.99755 - 3.08552I$
$b = -0.325330 + 0.891594I$		
$u = -0.917169 - 0.197212I$		
$a = 0.33537 + 1.51249I$	$1.91049 - 1.40877I$	$1.99755 + 3.08552I$
$b = -0.325330 - 0.891594I$		
$u = 0.035271 + 1.235610I$		
$a = 0.70102 - 1.33099I$	$5.20161 + 1.70001I$	$5.37273 - 2.73061I$
$b = 0.19425 + 1.50294I$		
$u = 0.035271 - 1.235610I$		
$a = 0.70102 + 1.33099I$	$5.20161 - 1.70001I$	$5.37273 + 2.73061I$
$b = 0.19425 - 1.50294I$		
$u = 0.171164 + 1.296500I$		
$a = 1.75533 - 0.00516I$	$2.00726 + 4.91579I$	$2.45525 - 6.27876I$
$b = 0.459524 - 0.755278I$		
$u = 0.171164 - 1.296500I$		
$a = 1.75533 + 0.00516I$	$2.00726 - 4.91579I$	$2.45525 + 6.27876I$
$b = 0.459524 + 0.755278I$		
$u = 0.409969 + 0.519303I$		
$a = -1.08154 - 2.81632I$	$4.98146 - 2.80089I$	$12.23664 + 2.91381I$
$b = 0.226258 + 0.744134I$		
$u = 0.409969 - 0.519303I$		
$a = -1.08154 + 2.81632I$	$4.98146 + 2.80089I$	$12.23664 - 2.91381I$
$b = 0.226258 - 0.744134I$		
$u = 0.089248 + 0.610949I$		
$a = -0.658805 - 0.382206I$	$7.59288 - 1.25507I$	$8.41084 + 0.24395I$
$b = 0.101471 - 1.352370I$		
$u = 0.089248 - 0.610949I$		
$a = -0.658805 + 0.382206I$	$7.59288 + 1.25507I$	$8.41084 - 0.24395I$
$b = 0.101471 + 1.352370I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.124683 + 1.379790I$		
$a = -0.427475 - 0.148819I$	$-4.85490 - 1.43958I$	$-1.090547 - 0.048277I$
$b = -1.044610 + 0.361468I$		
$u = -0.124683 - 1.379790I$		
$a = -0.427475 + 0.148819I$	$-4.85490 + 1.43958I$	$-1.090547 + 0.048277I$
$b = -1.044610 - 0.361468I$		
$u = -0.36245 + 1.38049I$		
$a = -0.841748 + 1.085670I$	$-2.18873 - 6.08260I$	$3.68269 + 6.06370I$
$b = -0.467784 - 1.122320I$		
$u = -0.36245 - 1.38049I$		
$a = -0.841748 - 1.085670I$	$-2.18873 + 6.08260I$	$3.68269 - 6.06370I$
$b = -0.467784 + 1.122320I$		
$u = -0.17262 + 1.59957I$		
$a = 0.019317 - 0.357002I$	$-4.71707 - 2.60778I$	$-2.21051 - 0.39909I$
$b = -0.175891 + 0.545807I$		
$u = -0.17262 - 1.59957I$		
$a = 0.019317 + 0.357002I$	$-4.71707 + 2.60778I$	$-2.21051 + 0.39909I$
$b = -0.175891 - 0.545807I$		
$u = -0.257452$		
$a = -1.60294$	-0.126778	-3.70930
$b = -0.935779$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17} - 6u^{16} + \dots + 6u - 1)(u^{74} + 3u^{73} + \dots + 59049u + 17047)$
c_2	$(u^{17} + u^{16} + \dots - 5u^2 - 1)(u^{74} + 2u^{73} + \dots - 349u - 241)$
c_3	$(u^{17} + 3u^{16} + \dots + 3u + 1)(u^{74} - 4u^{73} + \dots + 578u - 28)$
c_4, c_5	$(u^{17} + 2u^{16} + \dots + 4u + 1)(u^{74} + 3u^{73} + \dots + 209u + 47)$
c_6	$(u^{17} - u^{16} + \dots + 5u^2 + 1)(u^{74} + 2u^{73} + \dots - 349u - 241)$
c_7	$(u^{17} - 3u^{16} + \dots - u + 1)(u^{74} - 29u^{72} + \dots + 4312u - 2881)$
c_8	$(u^{17} - 2u^{16} + \dots + 4u - 1)(u^{74} + 3u^{73} + \dots + 209u + 47)$
c_9	$(u^{17} - 8u^{14} + \dots + 9u + 1)(u^{74} - u^{73} + \dots - 2616u + 589)$
c_{10}	$(u^{17} + 3u^{16} + \dots - u - 1)(u^{74} - 29u^{72} + \dots + 4312u - 2881)$
c_{11}	$(u^{17} - 3u^{16} + \dots + 3u - 1)(u^{74} - 4u^{73} + \dots + 578u - 28)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} - 4y^{16} + \dots + 12y - 1)$ $\cdot (y^{74} - 33y^{73} + \dots - 6606862717y + 290600209)$
c_2, c_6	$(y^{17} + 11y^{16} + \dots - 10y - 1)(y^{74} + 50y^{73} + \dots - 32631y + 58081)$
c_3, c_{11}	$(y^{17} + 11y^{16} + \dots - 11y - 1)(y^{74} + 46y^{73} + \dots - 79788y + 784)$
c_4, c_5, c_8	$(y^{17} + 18y^{16} + \dots + 6y - 1)(y^{74} + 69y^{73} + \dots - 23847y + 2209)$
c_7, c_{10}	$(y^{17} - 17y^{16} + \dots + 15y - 1)$ $\cdot (y^{74} - 58y^{73} + \dots - 75786956y + 8300161)$
c_9	$(y^{17} - 12y^{14} + \dots + 55y - 1)$ $\cdot (y^{74} - 9y^{73} + \dots - 10759128y + 346921)$