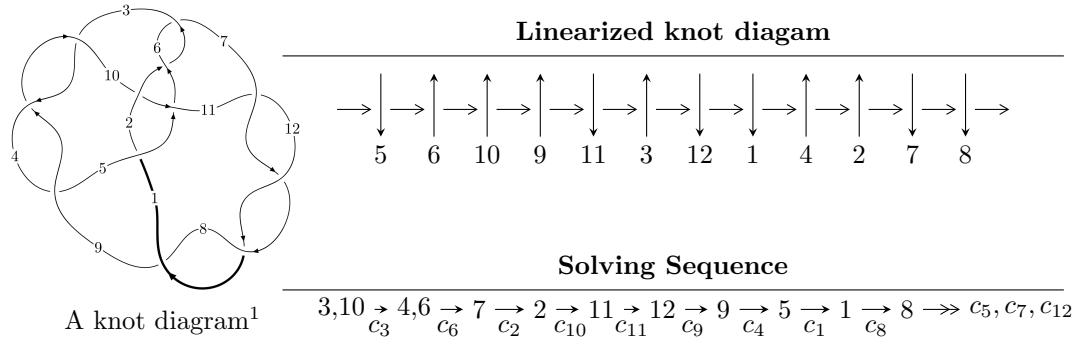


$12a_{1244}$ ($K12a_{1244}$)



Ideals for irreducible components² of X_{par}

$$\begin{aligned}
 I_1^u &= \langle 5.55213 \times 10^{84} u^{75} - 1.16390 \times 10^{85} u^{74} + \dots + 5.41696 \times 10^{85} b + 4.82475 \times 10^{85}, \\
 &\quad 5.54157 \times 10^{84} u^{75} - 2.95347 \times 10^{84} u^{74} + \dots + 5.41696 \times 10^{85} a - 3.16627 \times 10^{86}, u^{76} - u^{75} + \dots + 4u - 8 \rangle \\
 I_2^u &= \langle -u^{16} - 9u^{14} - 31u^{12} - u^{11} - 49u^{10} - 6u^9 - 31u^8 - 12u^7 - 9u^5 + 4u^4 - 2u^3 + u^2 + b - u + 1, \\
 &\quad u^{16} + u^{15} + 10u^{14} + 9u^{13} + 40u^{12} + 33u^{11} + 81u^{10} + 63u^9 + 86u^8 + 66u^7 + 44u^6 + 36u^5 + 9u^4 + 8u^3 + a - 2 \\
 &\quad u^{17} + 10u^{15} + 40u^{13} + u^{12} + 80u^{11} + 7u^{10} + 80u^9 + 18u^8 + 31u^7 + 21u^6 - 4u^5 + 11u^4 - 5u^3 + 3u^2 - 2u + 1 \rangle
 \end{aligned}$$

* 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/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.

I.

$$I_1^u = \langle 5.55 \times 10^{84}u^{75} - 1.16 \times 10^{85}u^{74} + \dots + 5.42 \times 10^{85}b + 4.82 \times 10^{85}, \ 5.54 \times 10^{84}u^{75} - 2.95 \times 10^{84}u^{74} + \dots + 5.42 \times 10^{85}a - 3.17 \times 10^{86}, \ u^{76} - u^{75} + \dots + 4u - 8 \rangle$$

(i) **Arc colorings**

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.102300u^{75} + 0.0545226u^{74} + \dots - 6.18614u + 5.84511 \\ -0.102495u^{75} + 0.214862u^{74} + \dots + 6.25886u - 0.890674 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.204796u^{75} + 0.269385u^{74} + \dots + 0.0727163u + 4.95443 \\ -0.102495u^{75} + 0.214862u^{74} + \dots + 6.25886u - 0.890674 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.108222u^{75} - 0.118173u^{74} + \dots - 13.2901u - 1.23742 \\ 0.0265752u^{75} - 0.118287u^{74} + \dots - 5.18142u - 0.132099 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.179021u^{75} - 0.179939u^{74} + \dots - 9.84024u - 0.938082 \\ 0.0355776u^{75} - 0.0834769u^{74} + \dots - 1.36926u - 0.250356 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.192907u^{75} - 0.137353u^{74} + \dots - 9.43677u - 5.08532 \\ 0.0863896u^{75} - 0.0566665u^{74} + \dots - 10.9587u - 0.256097 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0664020u^{75} - 0.174533u^{74} + \dots - 16.3898u - 1.57130 \\ -0.0196414u^{75} - 0.0913926u^{74} + \dots - 5.73736u - 0.0549055 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.272464u^{75} - 0.292969u^{74} + \dots - 18.6154u - 3.01996 \\ 0.155586u^{75} - 0.133803u^{74} + \dots - 10.7797u - 0.765404 \end{pmatrix}$$

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

(iii) **Cusp Shapes** = $0.175958u^{75} - 0.0797037u^{74} + \dots + 21.9858u + 2.71207$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{76} + 5u^{75} + \cdots + 5251032u + 1662433$
c_2, c_6	$u^{76} - 20u^{74} + \cdots - 13u + 1$
c_3, c_4, c_9	$u^{76} + u^{75} + \cdots - 4u - 8$
c_5	$u^{76} + u^{75} + \cdots - 39u + 19$
c_7, c_8, c_{11} c_{12}	$u^{76} - u^{75} + \cdots - 122u - 19$
c_{10}	$u^{76} - 4u^{75} + \cdots + 14u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{76} - 39y^{75} + \cdots - 83103653061344y + 2763683479489$
c_2, c_6	$y^{76} - 40y^{75} + \cdots - 75y + 1$
c_3, c_4, c_9	$y^{76} + 83y^{75} + \cdots + 1264y + 64$
c_5	$y^{76} - 5y^{75} + \cdots - 7791y + 361$
c_7, c_8, c_{11} c_{12}	$y^{76} - 97y^{75} + \cdots - 10590y + 361$
c_{10}	$y^{76} + 60y^{74} + \cdots - 172y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.301272 + 0.930495I$	$\sqrt{-1}(0.301272 + 0.930495I)$	
$a = -0.150821 + 0.775050I$	$-7.96110 + 4.04129I$	0
$b = 1.183940 + 0.498727I$		
$u = 0.301272 - 0.930495I$	$\sqrt{-1}(0.301272 - 0.930495I)$	
$a = -0.150821 - 0.775050I$	$-7.96110 - 4.04129I$	0
$b = 1.183940 - 0.498727I$		
$u = -0.776626 + 0.567863I$	$\sqrt{-1}(-0.776626 + 0.567863I)$	
$a = -1.77812 - 0.63034I$	$0.29651 - 8.26948I$	0
$b = 1.176910 - 0.523415I$		
$u = -0.776626 - 0.567863I$	$\sqrt{-1}(-0.776626 - 0.567863I)$	
$a = -1.77812 + 0.63034I$	$0.29651 + 8.26948I$	0
$b = 1.176910 + 0.523415I$		
$u = -0.847523 + 0.643030I$	$\sqrt{-1}(-0.847523 + 0.643030I)$	
$a = 1.086890 + 0.520197I$	$0.24259 + 2.84206I$	0
$b = -1.037760 - 0.378007I$		
$u = -0.847523 - 0.643030I$	$\sqrt{-1}(-0.847523 - 0.643030I)$	
$a = 1.086890 - 0.520197I$	$0.24259 - 2.84206I$	0
$b = -1.037760 + 0.378007I$		
$u = -0.710046 + 0.577141I$	$\sqrt{-1}(-0.710046 + 0.577141I)$	
$a = -0.119604 - 0.132006I$	$-11.37560 - 4.60303I$	$-6.80265 + 0.I$
$b = 0.240878 + 1.059360I$		
$u = -0.710046 - 0.577141I$	$\sqrt{-1}(-0.710046 - 0.577141I)$	
$a = -0.119604 + 0.132006I$	$-11.37560 + 4.60303I$	$-6.80265 + 0.I$
$b = 0.240878 - 1.059360I$		
$u = -0.122145 + 1.118440I$	$\sqrt{-1}(-0.122145 + 1.118440I)$	
$a = 0.78499 + 1.42762I$	$-3.52211 - 0.25493I$	0
$b = -0.862415 + 0.040383I$		
$u = -0.122145 - 1.118440I$	$\sqrt{-1}(-0.122145 - 1.118440I)$	
$a = 0.78499 - 1.42762I$	$-3.52211 + 0.25493I$	0
$b = -0.862415 - 0.040383I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.406456 + 0.744068I$		
$a = 1.14186 - 1.03625I$	$1.76999 - 1.00907I$	$2.09148 - 2.14646I$
$b = -0.925552 + 0.226684I$		
$u = 0.406456 - 0.744068I$		
$a = 1.14186 + 1.03625I$	$1.76999 + 1.00907I$	$2.09148 + 2.14646I$
$b = -0.925552 - 0.226684I$		
$u = 0.950096 + 0.671778I$		
$a = -1.49721 + 0.52951I$	$-8.31286 + 10.47230I$	0
$b = 1.229350 + 0.610141I$		
$u = 0.950096 - 0.671778I$		
$a = -1.49721 - 0.52951I$	$-8.31286 - 10.47230I$	0
$b = 1.229350 - 0.610141I$		
$u = 0.169965 + 1.171850I$		
$a = -0.395900 + 0.455510I$	$-8.01890 + 3.95701I$	0
$b = 1.34834 + 0.68368I$		
$u = 0.169965 - 1.171850I$		
$a = -0.395900 - 0.455510I$	$-8.01890 - 3.95701I$	0
$b = 1.34834 - 0.68368I$		
$u = 0.803294$		
$a = 1.44653$	-4.69299	1.19240
$b = -1.47863$		
$u = 0.789691$		
$a = 1.63403$	-1.59784	-8.69720
$b = -0.551119$		
$u = -0.783581$		
$a = 2.21801$	-10.7466	-11.2370
$b = -0.157298$		
$u = 0.512045 + 0.531509I$		
$a = -0.003817 + 0.248065I$	$-2.70752 + 3.32928I$	$-6.27624 - 7.23745I$
$b = 0.161163 - 0.847094I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.512045 - 0.531509I$		
$a = -0.003817 - 0.248065I$	$-2.70752 - 3.32928I$	$-6.27624 + 7.23745I$
$b = 0.161163 + 0.847094I$		
$u = 1.071010 + 0.678965I$		
$a = 0.950965 - 0.378857I$	$-8.15172 - 3.82370I$	0
$b = -1.110750 + 0.472733I$		
$u = 1.071010 - 0.678965I$		
$a = 0.950965 + 0.378857I$	$-8.15172 + 3.82370I$	0
$b = -1.110750 - 0.472733I$		
$u = -0.223516 + 1.262430I$		
$a = -0.571485 - 0.884942I$	$-1.79598 - 3.34060I$	0
$b = 1.145130 - 0.712804I$		
$u = -0.223516 - 1.262430I$		
$a = -0.571485 + 0.884942I$	$-1.79598 + 3.34060I$	0
$b = 1.145130 + 0.712804I$		
$u = 0.546836 + 0.411776I$		
$a = -2.48447 + 0.89729I$	$2.63552 + 4.45849I$	$2.79752 - 6.64900I$
$b = 1.092580 + 0.407714I$		
$u = 0.546836 - 0.411776I$		
$a = -2.48447 - 0.89729I$	$2.63552 - 4.45849I$	$2.79752 + 6.64900I$
$b = 1.092580 - 0.407714I$		
$u = -0.642650 + 0.227533I$		
$a = 2.05134 + 0.87646I$	$-10.74520 - 0.02289I$	$-9.54952 - 0.49322I$
$b = 0.062140 + 0.342103I$		
$u = -0.642650 - 0.227533I$		
$a = 2.05134 - 0.87646I$	$-10.74520 + 0.02289I$	$-9.54952 + 0.49322I$
$b = 0.062140 - 0.342103I$		
$u = -0.067601 + 1.338650I$		
$a = -0.787894 - 0.164053I$	$-1.77410 - 1.95331I$	0
$b = 1.348590 - 0.183843I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.067601 - 1.338650I$		
$a = -0.787894 + 0.164053I$	$-1.77410 + 1.95331I$	0
$b = 1.348590 + 0.183843I$		
$u = -0.063904 + 0.655723I$		
$a = 0.629348 - 0.569483I$	$-0.65753 - 1.80944I$	$-6.25762 + 5.56390I$
$b = 0.838089 - 0.268306I$		
$u = -0.063904 - 0.655723I$		
$a = 0.629348 + 0.569483I$	$-0.65753 + 1.80944I$	$-6.25762 - 5.56390I$
$b = 0.838089 + 0.268306I$		
$u = 0.083384 + 1.380440I$		
$a = -0.327507 + 0.955301I$	$-3.01556 + 3.75046I$	0
$b = 1.12997 + 0.91352I$		
$u = 0.083384 - 1.380440I$		
$a = -0.327507 - 0.955301I$	$-3.01556 - 3.75046I$	0
$b = 1.12997 - 0.91352I$		
$u = -0.604756 + 0.005334I$		
$a = 1.79141 + 0.05856I$	$2.07647 - 0.27911I$	$4.81259 - 2.39158I$
$b = -1.138290 + 0.228148I$		
$u = -0.604756 - 0.005334I$		
$a = 1.79141 - 0.05856I$	$2.07647 + 0.27911I$	$4.81259 + 2.39158I$
$b = -1.138290 - 0.228148I$		
$u = 0.549686$		
$a = 1.57697$	-1.64568	-6.18920
$b = -0.170519$		
$u = -0.275544 + 0.445603I$		
$a = 0.499599 - 0.378693I$	$-0.007012 - 1.042730I$	$-0.28024 + 6.10679I$
$b = 0.071648 + 0.410281I$		
$u = -0.275544 - 0.445603I$		
$a = 0.499599 + 0.378693I$	$-0.007012 + 1.042730I$	$-0.28024 - 6.10679I$
$b = 0.071648 - 0.410281I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.29973 + 1.45067I$	$-6.74604 + 4.17883I$	0
$a = -1.099410 + 0.614366I$		
$b = 0.975981 + 0.422982I$		
$u = 0.29973 - 1.45067I$	$-6.74604 - 4.17883I$	0
$a = -1.099410 - 0.614366I$		
$b = 0.975981 - 0.422982I$		
$u = -0.05425 + 1.48830I$	$-6.76022 - 1.59431I$	0
$a = 1.04203 + 1.48061I$		
$b = -1.016840 + 0.455138I$		
$u = -0.05425 - 1.48830I$	$-6.76022 + 1.59431I$	0
$a = 1.04203 - 1.48061I$		
$b = -1.016840 - 0.455138I$		
$u = -0.02144 + 1.49751I$	$-11.48080 - 4.04250I$	0
$a = -0.234003 - 0.908984I$		
$b = 1.15010 - 1.02860I$		
$u = -0.02144 - 1.49751I$	$-11.48080 + 4.04250I$	0
$a = -0.234003 + 0.908984I$		
$b = 1.15010 + 1.02860I$		
$u = -0.08422 + 1.50043I$	$-16.7189 - 1.7521I$	0
$a = 0.82646 - 1.61332I$		
$b = -0.820930 - 0.456119I$		
$u = -0.08422 - 1.50043I$	$-16.7189 + 1.7521I$	0
$a = 0.82646 + 1.61332I$		
$b = -0.820930 + 0.456119I$		
$u = 0.16069 + 1.50054I$	$-3.69831 + 6.96075I$	0
$a = 1.08147 - 1.21080I$		
$b = -1.160330 - 0.534577I$		
$u = 0.16069 - 1.50054I$	$-3.69831 - 6.96075I$	0
$a = 1.08147 + 1.21080I$		
$b = -1.160330 + 0.534577I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.05735 + 1.50893I$		
$a = -0.293801 - 0.276830I$	$-6.56407 - 2.10121I$	0
$b = -0.152043 - 0.794423I$		
$u = -0.05735 - 1.50893I$		
$a = -0.293801 + 0.276830I$	$-6.56407 + 2.10121I$	0
$b = -0.152043 + 0.794423I$		
$u = 0.16818 + 1.52267I$		
$a = -0.231387 + 0.325071I$	$-9.48501 + 5.84613I$	0
$b = -0.332142 + 1.102730I$		
$u = 0.16818 - 1.52267I$		
$a = -0.231387 - 0.325071I$	$-9.48501 - 5.84613I$	0
$b = -0.332142 - 1.102730I$		
$u = -0.01840 + 1.57131I$		
$a = -0.557579 + 0.464452I$	$-8.17034 - 2.09468I$	0
$b = -0.585914 + 0.385750I$		
$u = -0.01840 - 1.57131I$		
$a = -0.557579 - 0.464452I$	$-8.17034 + 2.09468I$	0
$b = -0.585914 - 0.385750I$		
$u = -0.25000 + 1.55224I$		
$a = 0.96650 + 1.06969I$	$-6.66209 - 12.00420I$	0
$b = -1.223910 + 0.647769I$		
$u = -0.25000 - 1.55224I$		
$a = 0.96650 - 1.06969I$	$-6.66209 + 12.00420I$	0
$b = -1.223910 - 0.647769I$		
$u = -0.25184 + 1.55488I$		
$a = -0.201337 - 0.338249I$	$-18.3759 - 8.1937I$	0
$b = -0.471945 - 1.250080I$		
$u = -0.25184 - 1.55488I$		
$a = -0.201337 + 0.338249I$	$-18.3759 + 8.1937I$	0
$b = -0.471945 + 1.250080I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.09185 + 1.63177I$		
$a = -0.321675 - 0.710395I$	$-16.5562 + 5.5782I$	0
$b = -0.867349 - 0.470399I$		
$u = 0.09185 - 1.63177I$		
$a = -0.321675 + 0.710395I$	$-16.5562 - 5.5782I$	0
$b = -0.867349 + 0.470399I$		
$u = -0.38724 + 1.58875I$		
$a = -1.29378 - 0.74570I$	$-16.6346 - 5.1140I$	0
$b = 0.808299 - 0.437665I$		
$u = -0.38724 - 1.58875I$		
$a = -1.29378 + 0.74570I$	$-16.6346 + 5.1140I$	0
$b = 0.808299 + 0.437665I$		
$u = -0.13539 + 1.63639I$		
$a = -0.216828 + 0.055600I$	$-7.91994 - 0.77322I$	0
$b = 0.647173 + 0.330956I$		
$u = -0.13539 - 1.63639I$		
$a = -0.216828 - 0.055600I$	$-7.91994 + 0.77322I$	0
$b = 0.647173 - 0.330956I$		
$u = 0.31387 + 1.61627I$		
$a = 0.873443 - 1.007800I$	$-15.8002 + 15.1438I$	0
$b = -1.25014 - 0.74147I$		
$u = 0.31387 - 1.61627I$		
$a = 0.873443 + 1.007800I$	$-15.8002 - 15.1438I$	0
$b = -1.25014 + 0.74147I$		
$u = -0.169958 + 0.261458I$		
$a = -4.41670 - 4.26044I$	$-0.726457 - 0.785371I$	$-6.43366 + 8.53278I$
$b = 0.880574 - 0.265951I$		
$u = -0.169958 - 0.261458I$		
$a = -4.41670 + 4.26044I$	$-0.726457 + 0.785371I$	$-6.43366 - 8.53278I$
$b = 0.880574 + 0.265951I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.275955 + 0.067448I$		
$a = 2.92659 - 0.88521I$	$1.75321 + 2.55068I$	$4.02344 - 10.63288I$
$b = -1.094950 - 0.576332I$		
$u = 0.275955 - 0.067448I$		
$a = 2.92659 + 0.88521I$	$1.75321 - 2.55068I$	$4.02344 + 10.63288I$
$b = -1.094950 + 0.576332I$		
$u = -0.045119 + 0.271744I$		
$a = 0.57010 + 2.42374I$	$-5.33747 - 3.77193I$	$0.82553 + 8.23011I$
$b = -1.14455 + 0.89843I$		
$u = -0.045119 - 0.271744I$		
$a = 0.57010 - 2.42374I$	$-5.33747 + 3.77193I$	$0.82553 - 8.23011I$
$b = -1.14455 - 0.89843I$		
$u = 0.27864 + 1.72170I$		
$a = -0.177452 - 0.047796I$	$-16.3787 + 1.4352I$	0
$b = 0.883732 - 0.445558I$		
$u = 0.27864 - 1.72170I$		
$a = -0.177452 + 0.047796I$	$-16.3787 - 1.4352I$	0
$b = 0.883732 + 0.445558I$		

$$I_2^u = \langle -u^{16} - 9u^{14} + \dots + b + 1, u^{16} + u^{15} + \dots + a - 2, u^{17} + 10u^{15} + \dots - 2u + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -u^{16} - u^{15} + \dots - 8u^3 + 2 \\ u^{16} + 9u^{14} + \dots + u - 1 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -u^{15} - u^{14} + \dots + u + 1 \\ u^{16} + 9u^{14} + \dots + u - 1 \end{pmatrix} \\ a_2 &= \begin{pmatrix} u^{16} + 10u^{14} + \dots + u - 1 \\ u^{16} - u^{15} + \dots - 4u^2 + 2u \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -u^{14} - u^{13} + \dots - 2u + 1 \\ u^{15} + u^{14} + \dots + u^3 + u \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -u^{16} - u^{15} + \dots - u - 1 \\ -u^{16} - u^{15} + \dots + 3u - 1 \end{pmatrix} \\ a_9 &= \begin{pmatrix} -u \\ u^3 + u \end{pmatrix} \\ a_5 &= \begin{pmatrix} u^2 + 1 \\ -u^4 - 2u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} u^{16} + 10u^{14} + \dots + u - 1 \\ -u^{15} - u^{14} + \dots - 2u^2 + u \end{pmatrix} \\ a_8 &= \begin{pmatrix} -2u^{16} - u^{15} + \dots - 2u + 1 \\ -2u^{16} - u^{15} + \dots + 3u^2 - 2u \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

$$(iii) \text{ Cusp Shapes} = -7u^{16} + 2u^{15} - 61u^{14} + 16u^{13} - 204u^{12} + 39u^{11} - 318u^{10} + 11u^9 - 216u^8 - 74u^7 - 34u^6 - 88u^5 + 20u^4 - 32u^3 + 17u^2 - 11u + 2$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} + 3u^{15} + \cdots + 2u - 1$
c_2	$u^{17} - 3u^{16} + \cdots - 3u + 1$
c_3, c_4	$u^{17} + 10u^{15} + \cdots - 2u + 1$
c_5	$u^{17} + 2u^{14} + \cdots + u + 1$
c_6	$u^{17} + 3u^{16} + \cdots - 3u - 1$
c_7, c_8	$u^{17} - 12u^{15} + \cdots + 2u + 1$
c_9	$u^{17} + 10u^{15} + \cdots - 2u - 1$
c_{10}	$u^{17} - 3u^{16} + \cdots - 2u + 1$
c_{11}, c_{12}	$u^{17} - 12u^{15} + \cdots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} + 6y^{16} + \cdots - 6y - 1$
c_2, c_6	$y^{17} - 11y^{16} + \cdots + 17y - 1$
c_3, c_4, c_9	$y^{17} + 20y^{16} + \cdots - 2y - 1$
c_5	$y^{17} - 6y^{15} + \cdots - 3y - 1$
c_7, c_8, c_{11} c_{12}	$y^{17} - 24y^{16} + \cdots + 16y - 1$
c_{10}	$y^{17} - 3y^{16} + \cdots + 6y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.139852 + 1.214420I$	$-7.82761 + 4.71969I$	$-3.03630 - 8.97868I$
$a = -0.441985 + 0.675736I$		
$b = 1.41103 + 1.05280I$		
$u = 0.139852 - 1.214420I$	$-7.82761 - 4.71969I$	$-3.03630 + 8.97868I$
$a = -0.441985 - 0.675736I$		
$b = 1.41103 - 1.05280I$		
$u = -0.770505$		
$a = 3.24311$	-10.2732	6.21040
$b = -0.627479$		
$u = 0.313732 + 0.658301I$	$-5.69788 - 3.06986I$	$-4.15450 - 0.28299I$
$a = 0.790014 - 0.247073I$		
$b = -1.085060 + 0.673907I$		
$u = 0.313732 - 0.658301I$	$-5.69788 + 3.06986I$	$-4.15450 + 0.28299I$
$a = 0.790014 + 0.247073I$		
$b = -1.085060 - 0.673907I$		
$u = -0.150767 + 1.264220I$	$-1.50192 - 3.71423I$	$3.27081 + 10.07592I$
$a = -0.527362 - 0.894224I$		
$b = 1.20771 - 0.79995I$		
$u = -0.150767 - 1.264220I$	$-1.50192 + 3.71423I$	$3.27081 - 10.07592I$
$a = -0.527362 + 0.894224I$		
$b = 1.20771 + 0.79995I$		
$u = 0.155556 + 1.352930I$	$-4.53369 + 2.21494I$	$-4.95135 - 2.79789I$
$a = -0.52002 + 1.33989I$		
$b = 0.974685 + 0.508862I$		
$u = 0.155556 - 1.352930I$	$-4.53369 - 2.21494I$	$-4.95135 + 2.79789I$
$a = -0.52002 - 1.33989I$		
$b = 0.974685 - 0.508862I$		
$u = -0.344357 + 0.507264I$	$1.30810 + 1.91528I$	$-2.43691 - 2.56388I$
$a = 1.110850 + 0.838168I$		
$b = -0.997031 - 0.404432I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.344357 - 0.507264I$		
$a = 1.110850 - 0.838168I$	$1.30810 - 1.91528I$	$-2.43691 + 2.56388I$
$b = -0.997031 + 0.404432I$		
$u = 0.413428 + 0.204442I$		
$a = 3.32259 - 1.68034I$	$-0.437743 - 0.271791I$	$1.03671 - 2.69788I$
$b = -0.866225 + 0.129684I$		
$u = 0.413428 - 0.204442I$		
$a = 3.32259 + 1.68034I$	$-0.437743 + 0.271791I$	$1.03671 + 2.69788I$
$b = -0.866225 - 0.129684I$		
$u = 0.06863 + 1.60082I$		
$a = 0.023930 + 0.508617I$	$-7.42886 + 1.63142I$	$-1.52360 - 3.06037I$
$b = 0.629370 + 0.088764I$		
$u = 0.06863 - 1.60082I$		
$a = 0.023930 - 0.508617I$	$-7.42886 - 1.63142I$	$-1.52360 + 3.06037I$
$b = 0.629370 - 0.088764I$		
$u = -0.21082 + 1.61302I$		
$a = -0.379564 - 1.071330I$	$-16.4469 - 3.7909I$	$-6.31007 + 0.92878I$
$b = 0.539259 - 0.235493I$		
$u = -0.21082 - 1.61302I$		
$a = -0.379564 + 1.071330I$	$-16.4469 + 3.7909I$	$-6.31007 - 0.92878I$
$b = 0.539259 + 0.235493I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{17} + 3u^{15} + \dots + 2u - 1)(u^{76} + 5u^{75} + \dots + 5251032u + 1662433)$
c_2	$(u^{17} - 3u^{16} + \dots - 3u + 1)(u^{76} - 20u^{74} + \dots - 13u + 1)$
c_3, c_4	$(u^{17} + 10u^{15} + \dots - 2u + 1)(u^{76} + u^{75} + \dots - 4u - 8)$
c_5	$(u^{17} + 2u^{14} + \dots + u + 1)(u^{76} + u^{75} + \dots - 39u + 19)$
c_6	$(u^{17} + 3u^{16} + \dots - 3u - 1)(u^{76} - 20u^{74} + \dots - 13u + 1)$
c_7, c_8	$(u^{17} - 12u^{15} + \dots + 2u + 1)(u^{76} - u^{75} + \dots - 122u - 19)$
c_9	$(u^{17} + 10u^{15} + \dots - 2u - 1)(u^{76} + u^{75} + \dots - 4u - 8)$
c_{10}	$(u^{17} - 3u^{16} + \dots - 2u + 1)(u^{76} - 4u^{75} + \dots + 14u + 1)$
c_{11}, c_{12}	$(u^{17} - 12u^{15} + \dots + 2u - 1)(u^{76} - u^{75} + \dots - 122u - 19)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{17} + 6y^{16} + \dots - 6y - 1)$ $\cdot (y^{76} - 39y^{75} + \dots - 83103653061344y + 2763683479489)$
c_2, c_6	$(y^{17} - 11y^{16} + \dots + 17y - 1)(y^{76} - 40y^{75} + \dots - 75y + 1)$
c_3, c_4, c_9	$(y^{17} + 20y^{16} + \dots - 2y - 1)(y^{76} + 83y^{75} + \dots + 1264y + 64)$
c_5	$(y^{17} - 6y^{15} + \dots - 3y - 1)(y^{76} - 5y^{75} + \dots - 7791y + 361)$
c_7, c_8, c_{11} c_{12}	$(y^{17} - 24y^{16} + \dots + 16y - 1)(y^{76} - 97y^{75} + \dots - 10590y + 361)$
c_{10}	$(y^{17} - 3y^{16} + \dots + 6y - 1)(y^{76} + 60y^{74} + \dots - 172y + 1)$