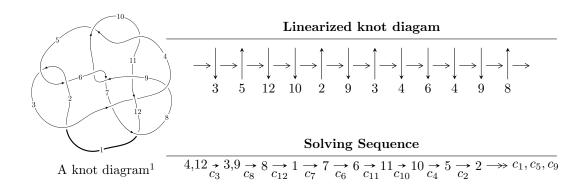
$12n_{0357} (K12n_{0357})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.81165 \times 10^{192}u^{72} - 4.45965 \times 10^{192}u^{71} + \dots + 9.74080 \times 10^{191}b + 1.06210 \times 10^{193}, \\ &- 9.93968 \times 10^{192}u^{72} + 2.39622 \times 10^{193}u^{71} + \dots + 2.92224 \times 10^{192}a - 7.03543 \times 10^{193}, \ u^{73} - 3u^{72} + \dots + I_2^u &= \langle 377188189u^{23} + 1378863855u^{22} + \dots + 61167471b + 138784360, \\ &- 64492387u^{23} - 295831704u^{22} + \dots + 61167471a - 153446503, \ u^{24} + 4u^{23} + \dots - u^3 + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 97 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.
$$I_1^u = \langle 1.81 \times 10^{192} u^{72} - 4.46 \times 10^{192} u^{71} + \dots + 9.74 \times 10^{191} b + 1.06 \times 10^{193}, \ -9.94 \times 10^{192} u^{72} + 2.40 \times 10^{193} u^{71} + \dots + 2.92 \times 10^{192} a - 7.04 \times 10^{193}, \ u^{73} - 3u^{72} + \dots + u - 3 \rangle$$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} 3.40139u^{72} - 8.19995u^{71} + \dots + 26.4023u + 24.0755 \\ -1.85986u^{72} + 4.57832u^{71} + \dots - 12.4794u - 10.9036 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1.54153u^{72} - 3.62163u^{71} + \dots + 13.9229u + 13.1719 \\ -1.85986u^{72} + 4.57832u^{71} + \dots - 12.4794u - 10.9036 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 0.412176u^{72} - 0.538736u^{71} + \dots - 4.02065u + 8.34606 \\ -0.637800u^{72} + 1.60567u^{71} + \dots - 1.74620u - 1.17888 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 3.10355u^{72} - 7.42149u^{71} + \dots + 22.7807u + 21.0665 \\ -2.37832u^{72} + 5.83272u^{71} + \dots - 16.2793u - 13.5621 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1.78414u^{72} - 3.70642u^{71} + \dots - 2.38936u + 13.1688 \\ -1.67153u^{72} + 4.07471u^{71} + \dots - 6.22334u - 6.79645 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 1.38239u^{72} - 2.91513u^{71} + \dots - 1.21923u + 8.34771 \\ -0.332419u^{72} + 0.770717u^{71} + \dots + 0.944775u + 1.17723 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 1.04998u^{72} - 2.14441u^{71} + \dots - 0.274455u + 9.52494 \\ -0.332419u^{72} + 0.770717u^{71} + \dots + 0.944775u + 1.17723 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1.04998u^{72} - 2.14441u^{71} + \dots - 0.274455u + 9.52494 \\ -0.332419u^{72} + 0.770717u^{71} + \dots + 0.944775u + 1.17723 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -2.32714u^{72} + 5.56801u^{71} + \dots + 1.8243u - 12.4425 \\ 1.62628u^{72} - 4.17318u^{71} + \dots + 13.8386u + 5.94494 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.792639u^{72} - 1.56032u^{71} + \dots - 2.81319u + 7.43157 \\ -0.787015u^{72} + 1.97749u^{71} + \dots - 2.76778u - 1.53829 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-5.04634u^{72} + 12.1280u^{71} + \cdots 38.4236u 37.4607$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{73} + 41u^{72} + \dots - 695u - 36$
c_2, c_5	$u^{73} - u^{72} + \dots + 19u + 6$
c_3	$u^{73} - 3u^{72} + \dots + u - 3$
c_4, c_{10}	$u^{73} + u^{72} + \dots + 135u + 175$
c_6, c_9	$u^{73} - u^{72} + \dots - 473u + 111$
c_7	$u^{73} + u^{72} + \dots - 508170u + 63873$
C ₈	$u^{73} - u^{72} + \dots + 73u + 42$
c_{11}	$u^{73} - 5u^{72} + \dots - 8735u + 369$
c_{12}	$u^{73} - u^{72} + \dots - 6229u + 3053$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{73} - 3y^{72} + \dots + 212737y - 1296$
c_2, c_5	$y^{73} + 41y^{72} + \dots - 695y - 36$
c_3	$y^{73} + 9y^{72} + \dots + 217y - 9$
c_4, c_{10}	$y^{73} + 27y^{72} + \dots - 448325y - 30625$
c_6, c_9	$y^{73} + 31y^{72} + \dots - 617429y - 12321$
C ₇	$y^{73} + 67y^{72} + \dots - 23854012236y - 4079760129$
C ₈	$y^{73} - 65y^{72} + \dots + 97561y - 1764$
c_{11}	$y^{73} - 65y^{72} + \dots + 5528239y - 136161$
c_{12}	$y^{73} + 67y^{72} + \dots - 280201423y - 9320809$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.711770 + 0.686911I		
a = 0.819664 + 0.526229I	0.79772 + 1.53809I	-4.00000 - 2.08274I
b = -0.706906 + 0.869155I		
u = -0.711770 - 0.686911I		
a = 0.819664 - 0.526229I	0.79772 - 1.53809I	-4.00000 + 2.08274I
b = -0.706906 - 0.869155I		
u = 0.788897 + 0.509390I		
a = -1.278790 + 0.137287I	1.73594 - 4.46923I	-6.52811 + 7.62363I
b = 1.15632 + 1.03791I		
u = 0.788897 - 0.509390I		
a = -1.278790 - 0.137287I	1.73594 + 4.46923I	-6.52811 - 7.62363I
b = 1.15632 - 1.03791I		
u = 0.224019 + 1.064990I		
a = 0.658185 + 0.432289I	4.02793 + 0.63188I	0
b = 0.842425 - 0.465563I		
u = 0.224019 - 1.064990I		
a = 0.658185 - 0.432289I	4.02793 - 0.63188I	0
b = 0.842425 + 0.465563I		
u = -0.059789 + 1.091400I		
a = -0.912998 - 0.339473I	2.19497 + 4.50938I	0
b = 1.46708 + 0.13645I		
u = -0.059789 - 1.091400I		
a = -0.912998 + 0.339473I	2.19497 - 4.50938I	0
b = 1.46708 - 0.13645I		
u = -0.450627 + 1.002820I		
a = 0.785262 - 0.098480I	2.19555 + 2.25831I	0
b = -1.56929 + 0.22536I		
u = -0.450627 - 1.002820I		
a = 0.785262 + 0.098480I	2.19555 - 2.25831I	0
b = -1.56929 - 0.22536I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.845801 + 0.149805I		
a = 1.232350 - 0.300012I	-2.08711 + 5.89222I	-9.17584 - 6.36903I
b = -1.69495 + 0.48097I		
u = -0.845801 - 0.149805I		
a = 1.232350 + 0.300012I	-2.08711 - 5.89222I	-9.17584 + 6.36903I
b = -1.69495 - 0.48097I		
u = -0.801731 + 0.263639I		
a = -2.20554 - 0.11514I	-3.64897 + 2.39805I	-12.44182 - 6.41492I
b = 0.891373 - 0.091156I		
u = -0.801731 - 0.263639I		
a = -2.20554 + 0.11514I	-3.64897 - 2.39805I	-12.44182 + 6.41492I
b = 0.891373 + 0.091156I		
u = -0.732593 + 0.410229I		
a = -1.158050 - 0.281195I	-3.24555 + 0.91435I	-8.37859 - 3.23477I
b = 1.220740 + 0.683681I		
u = -0.732593 - 0.410229I		
a = -1.158050 + 0.281195I	-3.24555 - 0.91435I	-8.37859 + 3.23477I
b = 1.220740 - 0.683681I		
u = -0.756346 + 0.324793I		
a = 0.10857 + 1.48519I	0.03493 + 1.91410I	-4.83110 - 3.77039I
b = -0.240810 + 0.118196I		
u = -0.756346 - 0.324793I		
a = 0.10857 - 1.48519I	0.03493 - 1.91410I	-4.83110 + 3.77039I
b = -0.240810 - 0.118196I		
u = -0.231124 + 1.212990I		
a = -0.423648 + 0.609081I	1.91029 - 2.09743I	0
b = -0.716380 + 0.056569I		
u = -0.231124 - 1.212990I		
a = -0.423648 - 0.609081I	1.91029 + 2.09743I	0
b = -0.716380 - 0.056569I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.730467 + 0.168977I		
a = -0.24056 + 2.55593I	-1.72884 - 6.88383I	-10.38312 + 7.19433I
b = 0.124509 - 0.145261I		
u = 0.730467 - 0.168977I		
a = -0.24056 - 2.55593I	-1.72884 + 6.88383I	-10.38312 - 7.19433I
b = 0.124509 + 0.145261I		
u = -0.381226 + 0.641967I		
a = 1.50889 + 1.91893I	0.64051 + 7.83605I	-0.10120 - 10.84671I
b = -0.912723 + 0.730489I		
u = -0.381226 - 0.641967I		
a = 1.50889 - 1.91893I	0.64051 - 7.83605I	-0.10120 + 10.84671I
b = -0.912723 - 0.730489I		
u = 0.701403 + 0.148645I		
a = 0.649579 - 0.015762I	-4.27706 - 1.66707I	-11.95055 + 4.70920I
b = -0.403650 + 1.334880I		
u = 0.701403 - 0.148645I		
a = 0.649579 + 0.015762I	-4.27706 + 1.66707I	-11.95055 - 4.70920I
b = -0.403650 - 1.334880I		
u = 0.611556 + 0.280959I		
a = 2.20649 + 1.40364I	-3.81796 - 0.17112I	-13.7765 + 5.6990I
b = -0.374732 - 0.043208I		
u = 0.611556 - 0.280959I		
a = 2.20649 - 1.40364I	-3.81796 + 0.17112I	-13.7765 - 5.6990I
b = -0.374732 + 0.043208I		
u = 0.482180 + 0.464629I		
a = -2.30819 + 0.81803I	2.76895 - 3.86000I	4.66691 + 5.55754I
b = 0.987197 + 0.668273I		
u = 0.482180 - 0.464629I		
a = -2.30819 - 0.81803I	2.76895 + 3.86000I	4.66691 - 5.55754I
b = 0.987197 - 0.668273I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.154203 + 0.643235I		
a = 0.289103 + 0.115197I	3.75316 + 2.54664I	5.49076 - 1.40011I
b = 0.75716 - 1.36920I		
u = -0.154203 - 0.643235I		
a = 0.289103 - 0.115197I	3.75316 - 2.54664I	5.49076 + 1.40011I
b = 0.75716 + 1.36920I		
u = 0.445982 + 0.474227I		
a = -0.072968 + 0.236784I	-0.13177 - 8.00703I	-0.8298 + 14.6532I
b = -0.30309 - 2.04304I		
u = 0.445982 - 0.474227I		
a = -0.072968 - 0.236784I	-0.13177 + 8.00703I	-0.8298 - 14.6532I
b = -0.30309 + 2.04304I		
u = -0.379636 + 0.465015I		
a = -0.062143 + 0.470921I	-0.084212 + 1.082470I	-1.38826 - 6.29344I
b = -0.183528 + 0.455346I		
u = -0.379636 - 0.465015I		
a = -0.062143 - 0.470921I	-0.084212 - 1.082470I	-1.38826 + 6.29344I
b = -0.183528 - 0.455346I		
u = -0.245626 + 0.530416I		
a = -0.835354 - 0.257006I	0.82387 + 2.32300I	-3.12118 - 3.65023I
b = -0.919360 - 0.589306I		
u = -0.245626 - 0.530416I		
a = -0.835354 + 0.257006I	0.82387 - 2.32300I	-3.12118 + 3.65023I
b = -0.919360 + 0.589306I		
u = 1.09746 + 0.93248I		
a = 1.165710 - 0.423069I	-8.64924 - 0.47663I	0
b = -1.69073 - 0.35921I		
u = 1.09746 - 0.93248I		
a = 1.165710 + 0.423069I	-8.64924 + 0.47663I	0
b = -1.69073 + 0.35921I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.03821 + 1.44557I		
a = 0.419014 + 0.311831I	7.26330 + 0.79424I	0
b = -0.121814 - 0.282796I		
u = -0.03821 - 1.44557I		
a = 0.419014 - 0.311831I	7.26330 - 0.79424I	0
b = -0.121814 + 0.282796I		
u = 0.522346 + 0.135295I		
a = -1.73569 - 1.33736I	2.44865 - 2.72547I	-0.98848 + 3.99656I
b = 1.151230 + 0.320801I		
u = 0.522346 - 0.135295I		
a = -1.73569 + 1.33736I	2.44865 + 2.72547I	-0.98848 - 3.99656I
b = 1.151230 - 0.320801I		
u = 0.529186		
a = 2.32017	-1.76032	-4.48430
b = -0.976528		
u = 1.03407 + 1.05725I		
a = -0.895281 + 0.313648I	-9.47345 - 4.85925I	0
b = 1.66291 + 0.49054I		
u = 1.03407 - 1.05725I		
a = -0.895281 - 0.313648I	-9.47345 + 4.85925I	0
b = 1.66291 - 0.49054I		
u = 1.08539 + 1.01319I		
a = -0.649568 + 0.696904I	-9.65085 - 2.86615I	0
b = 1.337990 + 0.293620I		
u = 1.08539 - 1.01319I		
a = -0.649568 - 0.696904I	-9.65085 + 2.86615I	0
b = 1.337990 - 0.293620I		
u = 0.98164 + 1.12301I		
a = 0.809172 - 0.868353I	-8.01190 - 7.13354I	0
b = -1.52323 - 0.11626I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.98164 - 1.12301I		
a = 0.809172 + 0.868353I	-8.01190 + 7.13354I	0
b = -1.52323 + 0.11626I		
u = 1.16275 + 0.94037I		
a = 1.145480 - 0.346183I	-8.15838 - 9.01433I	0
b = -1.44811 - 0.68459I		
u = 1.16275 - 0.94037I		
a = 1.145480 + 0.346183I	-8.15838 + 9.01433I	0
b = -1.44811 + 0.68459I		
u = -1.08700 + 1.03138I		
a = -1.088610 - 0.601686I	-5.09007 + 3.96389I	0
b = 1.378680 - 0.228755I		
u = -1.08700 - 1.03138I		
a = -1.088610 + 0.601686I	-5.09007 - 3.96389I	0
b = 1.378680 + 0.228755I		
u = -1.14886 + 0.98319I		
a = -1.095960 - 0.405225I	-5.17491 + 4.47680I	0
b = 1.39801 - 0.42975I		
u = -1.14886 - 0.98319I		
a = -1.095960 + 0.405225I	-5.17491 - 4.47680I	0
b = 1.39801 + 0.42975I		
u = -1.19459 + 0.97908I		
a = 0.713464 + 0.719383I	-3.35645 - 1.89703I	0
b = -1.268230 - 0.006930I		
u = -1.19459 - 0.97908I		
a = 0.713464 - 0.719383I	-3.35645 + 1.89703I	0
b = -1.268230 + 0.006930I		
u = -1.06511 + 1.12982I		
a = 1.080960 + 0.314940I	-2.83469 + 10.02650I	0
b = -1.58993 + 0.59363I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.06511 - 1.12982I		
a = 1.080960 - 0.314940I	-2.83469 - 10.02650I	0
b = -1.58993 - 0.59363I		
u = 1.08721 + 1.11899I		
a = -1.142380 + 0.386017I	-5.8665 - 16.5000I	0
b = 1.61370 + 0.67386I		
u = 1.08721 - 1.11899I		
a = -1.142380 - 0.386017I	-5.8665 + 16.5000I	0
b = 1.61370 - 0.67386I		
u = -0.18127 + 1.56234I		
a = -0.378264 + 0.227158I	6.32157 + 5.12094I	0
b = 0.261801 - 0.024901I		
u = -0.18127 - 1.56234I		
a = -0.378264 - 0.227158I	6.32157 - 5.12094I	0
b = 0.261801 + 0.024901I		
u = 1.20934 + 1.04042I		
a = -0.709244 + 0.702670I	-6.20784 + 8.23625I	0
b = 1.371640 - 0.142965I		
u = 1.20934 - 1.04042I		
a = -0.709244 - 0.702670I	-6.20784 - 8.23625I	0
b = 1.371640 + 0.142965I		
u = -1.10888 + 1.15654I		
a = -0.810172 - 0.543238I	-4.67517 + 3.68408I	0
b = 1.272410 - 0.096770I		
u = -1.10888 - 1.15654I		
a = -0.810172 + 0.543238I	-4.67517 - 3.68408I	0
b = 1.272410 + 0.096770I		
u = 1.02752 + 1.23429I		
a = 0.580816 - 0.597525I	-7.25042 + 0.97681I	0
b = -1.310540 + 0.134265I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.02752 - 1.23429I		
a = 0.580816 + 0.597525I	-7.25042 - 0.97681I	0
b = -1.310540 - 0.134265I		
u = -0.382422 + 0.042516I		
a = -0.66270 + 2.29057I	0.76436 + 2.18087I	-2.77786 - 2.58179I
b = -0.928905 - 0.097447I		
u = -0.382422 - 0.042516I		
a = -0.66270 - 2.29057I	0.76436 - 2.18087I	-2.77786 + 2.58179I
b = -0.928905 + 0.097447I		

$$II. \\ I_2^u = \langle 3.77 \times 10^8 u^{23} + 1.38 \times 10^9 u^{22} + \dots + 6.12 \times 10^7 b + 1.39 \times 10^8, \ -6.45 \times 10^7 u^{23} - 2.96 \times 10^8 u^{22} + \dots + 6.12 \times 10^7 a - 1.53 \times 10^8, \ u^{24} + 4u^{23} + \dots - u^3 + 1 \rangle$$

(i) Arc colorings

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

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} 1.05436u^{23} + 4.83642u^{22} + \dots + 0.636746u + 2.50863 \\ -6.16648u^{23} - 22.5424u^{22} + \dots - 2.86681u - 2.26892 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -5.11213u^{23} - 17.7060u^{22} + \dots - 2.23006u + 0.239705 \\ -6.16648u^{23} - 22.5424u^{22} + \dots - 2.86681u - 2.26892 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.507319u^{23} - 2.59043u^{22} + \dots - 5.26978u - 1.75691 \\ 2.50293u^{23} + 12.8587u^{22} + \dots - 1.24532u + 5.01141 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -3.60920u^{23} - 8.84729u^{22} + \dots - 4.47538u + 5.25112 \\ -3.62222u^{23} - 11.4716u^{22} + \dots - 1.36388u + 0.578101 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -3.13956u^{23} - 10.0674u^{22} + \dots + 0.934275u + 2.98255 \\ -9.85454u^{23} - 37.4415u^{22} + \dots - 7.12656u - 3.56118 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2.22207u^{23} + 6.52071u^{22} + \dots + 3.73821u - 2.62904 \\ -5.23232u^{23} - 21.9699u^{22} + \dots - 5.76267u - 4.13928 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -3.01024u^{23} - 15.4492u^{22} + \dots - 2.02447u - 6.76832 \\ -5.23232u^{23} - 21.9699u^{22} + \dots - 5.76267u - 4.13928 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -7.56886u^{23} - 23.4335u^{22} + \dots - 7.91950u + 3.21038 \\ -3.52029u^{23} - 8.69117u^{22} + \dots - 3.89922u + 3.70832 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -4.43896u^{23} - 21.7559u^{22} + \dots - 4.53179u - 7.32947 \\ -2.34593u^{23} - 7.11088u^{22} + \dots - 5.17696u + 1.57248 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{333484440}{20389157}u^{23} - \frac{1521347308}{20389157}u^{22} + \dots - \frac{280854901}{20389157}u - \frac{357663045}{20389157}u^{23} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{24} - 14u^{23} + \dots - 18u + 1$
c_2	$u^{24} + 2u^{23} + \dots + 2u + 1$
c_3	$u^{24} + 4u^{23} + \dots - u^3 + 1$
c_4	$u^{24} + 10u^{22} + \dots + 4u + 3$
c_5	$u^{24} - 2u^{23} + \dots - 2u + 1$
c_6	$u^{24} - 8u^{23} + \dots + 2u + 1$
c_7	$u^{24} + 4u^{22} + \dots + u + 1$
c_8	$u^{24} - 10u^{22} + \dots + 4u + 5$
<i>c</i> ₉	$u^{24} + 8u^{23} + \dots - 2u + 1$
c_{10}	$u^{24} + 10u^{22} + \dots - 4u + 3$
c_{11}	$u^{24} + 4u^{23} + \dots - 2u + 1$
c_{12}	$u^{24} + 10u^{22} + \dots + 8u + 3$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{24} + 6y^{23} + \dots - 6y + 1$
c_2,c_5	$y^{24} + 14y^{23} + \dots + 18y + 1$
c ₃	$y^{24} + 14y^{23} + \dots + 14y^2 + 1$
c_4,c_{10}	$y^{24} + 20y^{23} + \dots + 122y + 9$
c_{6}, c_{9}	$y^{24} + 12y^{23} + \dots - 2y + 1$
	$y^{24} + 8y^{23} + \dots - 7y + 1$
<i>c</i> ₈	$y^{24} - 20y^{23} + \dots - 286y + 25$
c_{11}	$y^{24} - 12y^{23} + \dots + 6y + 1$
c_{12}	$y^{24} + 20y^{23} + \dots + 80y + 9$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.199272 + 0.958048I		
a = -0.889600 + 0.760341I	4.28901 - 1.44360I	1.41377 + 5.79829I
b = -0.694132 - 0.404316I		
u = -0.199272 - 0.958048I		
a = -0.889600 - 0.760341I	4.28901 + 1.44360I	1.41377 - 5.79829I
b = -0.694132 + 0.404316I		
u = -0.837058 + 0.470777I		
a = -1.130140 - 0.152035I	-2.48671 + 2.11960I	-2.65124 - 5.25578I
b = 0.725967 + 0.268883I		
u = -0.837058 - 0.470777I		
a = -1.130140 + 0.152035I	-2.48671 - 2.11960I	-2.65124 + 5.25578I
b = 0.725967 - 0.268883I		
u = -0.283438 + 0.916379I		
a = -0.913375 - 0.068108I	2.10464 + 3.05536I	0.83554 - 7.05948I
b = 1.82850 + 0.22031I		
u = -0.283438 - 0.916379I		
a = -0.913375 + 0.068108I	2.10464 - 3.05536I	0.83554 + 7.05948I
b = 1.82850 - 0.22031I		
u = -0.138505 + 1.039690I		
a = 0.799603 - 0.465724I	2.52748 - 1.32868I	1.87192 - 0.43201I
b = 0.703884 - 0.449109I		
u = -0.138505 - 1.039690I		
a = 0.799603 + 0.465724I	2.52748 + 1.32868I	1.87192 + 0.43201I
b = 0.703884 + 0.449109I		
u = -0.299383 + 0.788402I		
a = 1.086920 + 0.158296I	3.62116 + 3.70221I	5.08118 - 6.89552I
b = -1.57428 + 0.71805I		
u = -0.299383 - 0.788402I		
a = 1.086920 - 0.158296I	3.62116 - 3.70221I	5.08118 + 6.89552I
b = -1.57428 - 0.71805I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.713401 + 0.354517I		
a = 1.78472 + 0.24582I	2.11896 + 3.55103I	-4.92325 - 0.41025I
b = -1.015590 + 0.801786I		
u = -0.713401 - 0.354517I		
a = 1.78472 - 0.24582I	2.11896 - 3.55103I	-4.92325 + 0.41025I
b = -1.015590 - 0.801786I		
u = 0.421205 + 0.385110I		
a = 2.17804 - 0.11797I	-3.43668 + 0.35997I	-5.57821 - 4.47507I
b = -0.407933 + 0.616082I		
u = 0.421205 - 0.385110I		
a = 2.17804 + 0.11797I	-3.43668 - 0.35997I	-5.57821 + 4.47507I
b = -0.407933 - 0.616082I		
u = 1.04468 + 1.04140I		
a = 0.778881 - 0.502263I	-9.20200 - 3.82998I	-4.00000 + 2.33150I
b = -1.49157 - 0.38772I		
u = 1.04468 - 1.04140I		
a = 0.778881 + 0.502263I	-9.20200 + 3.82998I	-4.00000 - 2.33150I
b = -1.49157 + 0.38772I		
u = 0.421357 + 0.209500I		
a = -1.51495 + 1.81192I	-0.51254 - 7.32074I	-6.31406 + 5.93822I
b = 0.643573 + 1.174640I		
u = 0.421357 - 0.209500I		
a = -1.51495 - 1.81192I	-0.51254 + 7.32074I	-6.31406 - 5.93822I
b = 0.643573 - 1.174640I		
u = -1.14750 + 1.05301I		
a = -1.085120 - 0.546883I	-5.35357 + 4.13899I	-19.8997 - 11.3641I
b = 1.332100 - 0.203079I		
u = -1.14750 - 1.05301I		
a = -1.085120 + 0.546883I	-5.35357 - 4.13899I	-19.8997 + 11.3641I
b = 1.332100 + 0.203079I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.21749 + 1.54667I		
a = 0.159735 + 0.255362I	6.81021 + 0.26234I	-4.00000 + 2.41284I
b = -0.672542 - 0.322370I		
u = -0.21749 - 1.54667I		
a = 0.159735 - 0.255362I	6.81021 - 0.26234I	-4.00000 - 2.41284I
b = -0.672542 + 0.322370I		
u = -0.05120 + 1.63287I		
a = -0.254705 + 0.022425I	6.09978 + 5.59765I	-4.00000 - 10.59929I
b = 0.622030 - 0.278029I		
u = -0.05120 - 1.63287I		
a = -0.254705 - 0.022425I	6.09978 - 5.59765I	-4.00000 + 10.59929I
b = 0.622030 + 0.278029I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{24} - 14u^{23} + \dots - 18u + 1)(u^{73} + 41u^{72} + \dots - 695u - 36) \right $
c_2	$(u^{24} + 2u^{23} + \dots + 2u + 1)(u^{73} - u^{72} + \dots + 19u + 6)$
c_3	$ (u^{24} + 4u^{23} + \dots - u^3 + 1)(u^{73} - 3u^{72} + \dots + u - 3) $
c_4	$ (u^{24} + 10u^{22} + \dots + 4u + 3)(u^{73} + u^{72} + \dots + 135u + 175) $
<i>C</i> ₅	$ (u^{24} - 2u^{23} + \dots - 2u + 1)(u^{73} - u^{72} + \dots + 19u + 6) $
c_6	$ (u^{24} - 8u^{23} + \dots + 2u + 1)(u^{73} - u^{72} + \dots - 473u + 111) $
c ₇	$ (u^{24} + 4u^{22} + \dots + u + 1)(u^{73} + u^{72} + \dots - 508170u + 63873) $
<i>c</i> ₈	$(u^{24} - 10u^{22} + \dots + 4u + 5)(u^{73} - u^{72} + \dots + 73u + 42)$
<i>c</i> ₉	$ (u^{24} + 8u^{23} + \dots - 2u + 1)(u^{73} - u^{72} + \dots - 473u + 111) $
c_{10}	$(u^{24} + 10u^{22} + \dots - 4u + 3)(u^{73} + u^{72} + \dots + 135u + 175)$
c_{11}	$(u^{24} + 4u^{23} + \dots - 2u + 1)(u^{73} - 5u^{72} + \dots - 8735u + 369)$
c_{12}	$(u^{24} + 10u^{22} + \dots + 8u + 3)(u^{73} - u^{72} + \dots - 6229u + 3053)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{24} + 6y^{23} + \dots - 6y + 1)(y^{73} - 3y^{72} + \dots + 212737y - 1296)$
c_2,c_5	$(y^{24} + 14y^{23} + \dots + 18y + 1)(y^{73} + 41y^{72} + \dots - 695y - 36)$
<i>c</i> ₃	$(y^{24} + 14y^{23} + \dots + 14y^2 + 1)(y^{73} + 9y^{72} + \dots + 217y - 9)$
c_4, c_{10}	$(y^{24} + 20y^{23} + \dots + 122y + 9)(y^{73} + 27y^{72} + \dots - 448325y - 30625)$
c_6, c_9	$(y^{24} + 12y^{23} + \dots - 2y + 1)(y^{73} + 31y^{72} + \dots - 617429y - 12321)$
c ₇	$(y^{24} + 8y^{23} + \dots - 7y + 1)$ $\cdot (y^{73} + 67y^{72} + \dots - 23854012236y - 4079760129)$
c ₈	$(y^{24} - 20y^{23} + \dots - 286y + 25)(y^{73} - 65y^{72} + \dots + 97561y - 1764)$
c_{11}	$(y^{24} - 12y^{23} + \dots + 6y + 1)(y^{73} - 65y^{72} + \dots + 5528239y - 136161)$
c_{12}	$(y^{24} + 20y^{23} + \dots + 80y + 9)$ $\cdot (y^{73} + 67y^{72} + \dots - 280201423y - 9320809)$