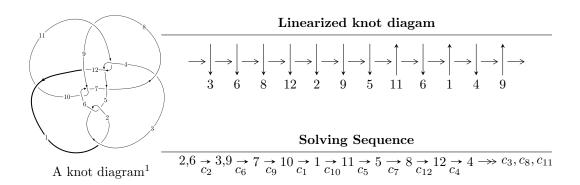
$12n_{0427} (K12n_{0427})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -9.07936 \times 10^{110} u^{78} + 8.79010 \times 10^{109} u^{77} + \dots + 6.15846 \times 10^{109} b - 9.76189 \times 10^{110}, \\ &5.98068 \times 10^{109} u^{78} - 1.62667 \times 10^{110} u^{77} + \dots + 6.15846 \times 10^{109} a + 1.72158 \times 10^{110}, \ u^{79} - u^{78} + \dots - 5u - 10^{11} u^{79} + 10^{11}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 102 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.
$$I_1^u = \langle -9.08 \times 10^{110} u^{78} + 8.79 \times 10^{109} u^{77} + \cdots + 6.16 \times 10^{109} b - 9.76 \times 10^{110}, \ 5.98 \times 10^{109} u^{78} - 1.63 \times 10^{110} u^{77} + \cdots + 6.16 \times 10^{109} a + 1.72 \times 10^{110}, \ u^{79} - u^{78} + \cdots - 5u - 1 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} -0.971132u^{78} + 2.64136u^{77} + \dots + 6.04319u - 2.79547 \\ 14.7429u^{78} - 1.42732u^{77} + \dots + 94.4842u + 15.8512 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 11.8768u^{78} - 3.37720u^{77} + \dots + 83.6913u + 11.1756 \\ 11.9659u^{78} - 4.59087u^{77} + \dots + 116.379u + 18.6517 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.971132u^{78} + 2.64136u^{77} + \dots + 6.04319u - 2.79547 \\ 16.3558u^{78} - 0.971234u^{77} + \dots + 101.864u + 17.5214 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -0.810554u^{78} + 3.36782u^{77} + \dots + 72.5802u + 12.6725 \\ 12.4497u^{78} - 0.403268u^{77} + \dots + 72.5802u + 12.6725 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 12.8514u^{78} - 3.04231u^{77} + \dots + 89.2245u + 12.3001 \\ 12.9406u^{78} - 4.25598u^{77} + \dots + 121.912u + 19.7762 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -14.4160u^{78} + 5.24384u^{77} + \dots - 95.6278u - 14.3701 \\ -11.5538u^{78} + 3.34984u^{77} + \dots - 112.598u - 17.7373 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 17.1980u^{78} - 7.17604u^{77} + \dots + 116.184u + 19.2207 \\ 6.15055u^{78} - 3.28266u^{77} + \dots + 78.6335u + 11.8437 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $13.0730u^{78} 4.80433u^{77} + \cdots + 106.377u + 11.6389$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{79} + 47u^{78} + \dots - 15u + 1$
c_2, c_5	$u^{79} + u^{78} + \dots - 5u + 1$
<i>c</i> ₃	$u^{79} + 2u^{78} + \dots - 1585u - 751$
c_4, c_{11}	$u^{79} + u^{78} + \dots - 95u - 17$
c_{6}, c_{9}	$u^{79} + 8u^{78} + \dots + 228781u + 27293$
c_7	$u^{79} - 10u^{78} + \dots + 105789720u - 12203621$
<i>c</i> ₈	$u^{79} + 9u^{78} + \dots + 87u + 1$
c_{10}	$u^{79} + 6u^{78} + \dots + 180673434u + 11333737$
c_{12}	$u^{79} - 3u^{78} + \dots - 427561u + 16969$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{79} - 23y^{78} + \dots + 201y - 1$
c_2, c_5	$y^{79} - 47y^{78} + \dots - 15y - 1$
<i>c</i> ₃	$y^{79} - 18y^{78} + \dots + 14546249y - 564001$
c_4, c_{11}	$y^{79} - 59y^{78} + \dots - 10729y - 289$
c_6, c_9	$y^{79} - 86y^{78} + \dots + 37605309847y - 744907849$
c_7	$y^{79} - 74y^{78} + \dots + 3831097413487084y - 148928365511641$
c ₈	$y^{79} + 17y^{78} + \dots + 4035y - 1$
c_{10}	$y^{79} + 72y^{78} + \dots + 6604146335611458y - 128453594385169$
c_{12}	$y^{79} + 57y^{78} + \dots + 62831435943y - 287946961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.124050 + 0.993308I		
a = 0.04579 - 1.50731I	-3.53096 - 5.44418I	0
b = -0.099183 + 0.105938I		
u = -0.124050 - 0.993308I		
a = 0.04579 + 1.50731I	-3.53096 + 5.44418I	0
b = -0.099183 - 0.105938I		
u = -1.00792		
a = 1.83576	-6.57376	0
b = 3.13845		
u = 0.124459 + 1.005840I		
a = -0.20988 - 1.77449I	-8.55740 + 11.15110I	0
b = 0.0137860 - 0.0597242I		
u = 0.124459 - 1.005840I		
a = -0.20988 + 1.77449I	-8.55740 - 11.15110I	0
b = 0.0137860 + 0.0597242I		
u = 0.144077 + 0.963515I		
a = 0.42273 - 1.45073I	-7.42668 - 1.34593I	0
b = 0.385199 + 0.154386I		
u = 0.144077 - 0.963515I		
a = 0.42273 + 1.45073I	-7.42668 + 1.34593I	0
b = 0.385199 - 0.154386I		
u = 0.860189 + 0.441139I		
a = 1.057870 + 0.073073I	-3.06653 + 2.05333I	0
b = 0.93330 + 1.20699I		
u = 0.860189 - 0.441139I		
a = 1.057870 - 0.073073I	-3.06653 - 2.05333I	0
b = 0.93330 - 1.20699I		
u = -0.996413 + 0.319112I		
a = 0.650609 - 1.213410I	-0.44095 + 4.14481I	0
b = 0.649781 - 0.828840I		

	Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u =	-0.996413 - 0.319112I		
a =	0.650609 + 1.213410I	-0.44095 - 4.14481I	0
b =	0.649781 + 0.828840I		
u =	0.655543 + 0.819980I		
a =	0.255857 + 0.086779I	-0.66585 + 2.44129I	0
b =	0.588626 - 0.201877I		
u =	0.655543 - 0.819980I		
a =	0.255857 - 0.086779I	-0.66585 - 2.44129I	0
b =	0.588626 + 0.201877I		
u =	0.967265 + 0.427782I		
a =	-0.488566 - 0.371683I	-3.57853 - 3.77822I	0
b =	0.273554 + 0.305272I		
u =	0.967265 - 0.427782I		
a =	-0.488566 + 0.371683I	-3.57853 + 3.77822I	0
	0.273554 - 0.305272I		
u =	-0.777640 + 0.524131I		
a =	0.060922 + 1.178250I	-1.88772 - 1.48161I	-6.00000 + 0.I
	-1.05995 + 1.07375I		
u =	-0.777640 - 0.524131I		
a =	0.060922 - 1.178250I	-1.88772 + 1.48161I	-6.00000 + 0.I
b =	-1.05995 - 1.07375I		
u =	0.874391 + 0.252735I		
a =	0.106856 + 0.911284I	-0.337925 - 0.256564I	-8.30782 + 3.39103I
b =	1.077430 + 0.356830I		
u =	0.874391 - 0.252735I		
a =	0.106856 - 0.911284I	-0.337925 + 0.256564I	-8.30782 - 3.39103I
b =	1.077430 - 0.356830I		
	-0.148498 + 1.081220I		
	-0.15032 + 1.59909I	-6.06830 - 1.45699I	0
b =	-0.284344 + 0.412088I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.148498 - 1.081220I		
a = -0.15032 - 1.59909I	-6.06830 + 1.45699I	0
b = -0.284344 - 0.412088I		
u = 0.111700 + 0.880869I		
a = -0.27307 + 1.59148I	-2.96592 - 0.33851I	-4.86982 + 0.I
b = 0.148200 + 0.097888I		
u = 0.111700 - 0.880869I		
a = -0.27307 - 1.59148I	-2.96592 + 0.33851I	-4.86982 + 0.I
b = 0.148200 - 0.097888I		
u = 1.095650 + 0.199276I		
a = -0.233611 + 0.299177I	-1.65389 - 2.40002I	0
b = -0.413784 - 1.166340I		
u = 1.095650 - 0.199276I		
a = -0.233611 - 0.299177I	-1.65389 + 2.40002I	0
b = -0.413784 + 1.166340I		
u = -0.870987 + 0.694280I		
a = -0.242416 - 0.409787I	2.25413 + 2.59808I	0
b = -0.672718 - 0.142168I		
u = -0.870987 - 0.694280I		
a = -0.242416 + 0.409787I	2.25413 - 2.59808I	0
b = -0.672718 + 0.142168I		
u = 1.090130 + 0.235481I		
a = -0.99350 - 1.82783I	-4.58545 - 6.42996I	0
b = -1.34961 - 1.90635I		
u = 1.090130 - 0.235481I		
a = -0.99350 + 1.82783I	-4.58545 + 6.42996I	0
b = -1.34961 + 1.90635I		
u = -1.087020 + 0.301405I		
a = 0.377902 - 0.095022I	-4.52644 + 7.46779I	0
b = 1.47034 - 1.51852I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.087020 - 0.301405I		
a = 0.377902 + 0.095022I	-4.52644 - 7.46779I	0
b = 1.47034 + 1.51852I		
u = -0.870532 + 0.729133I		
a = -0.408189 - 0.291159I	2.25574 + 2.83763I	0
b = -0.415327 + 0.247680I		
u = -0.870532 - 0.729133I		
a = -0.408189 + 0.291159I	2.25574 - 2.83763I	0
b = -0.415327 - 0.247680I		
u = 0.854887 + 0.086205I		
a = -0.824990 - 0.760452I	0.20270 - 1.63900I	-6.18579 + 2.68412I
b = -2.18721 + 0.40335I		
u = 0.854887 - 0.086205I		
a = -0.824990 + 0.760452I	0.20270 + 1.63900I	-6.18579 - 2.68412I
b = -2.18721 - 0.40335I		
u = -0.011138 + 0.799292I		
a = 0.75122 + 2.24520I	-6.90468 + 2.02476I	-12.86621 - 3.49188I
b = 0.0809696 + 0.0150184I		
u = -0.011138 - 0.799292I		
a = 0.75122 - 2.24520I	-6.90468 - 2.02476I	-12.86621 + 3.49188I
b = 0.0809696 - 0.0150184I		
u = -1.205070 + 0.075848I		
a = 0.352959 + 0.793234I	-6.98811 - 1.03838I	0
b = 0.249679 + 0.319589I		
u = -1.205070 - 0.075848I		
a = 0.352959 - 0.793234I	-6.98811 + 1.03838I	0
b = 0.249679 - 0.319589I		
u = -0.714612 + 0.322053I		
a = 1.17385 - 1.10692I	-1.62856 + 5.22847I	-5.24615 - 6.25825I
b = 1.122240 + 0.616705I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.714612 - 0.322053I		
a = 1.17385 + 1.10692I	-1.62856 - 5.22847I	-5.24615 + 6.25825I
b = 1.122240 - 0.616705I		
u = 0.756993 + 0.152949I		
a = 0.42209 - 2.06915I	-2.35393 - 5.09247I	-5.03911 + 4.20229I
b = 1.42709 - 0.91137I		
u = 0.756993 - 0.152949I		
a = 0.42209 + 2.06915I	-2.35393 + 5.09247I	-5.03911 - 4.20229I
b = 1.42709 + 0.91137I		
u = -0.759300		
a = 1.70752	-5.85282	-17.3230
b = 0.277959		
u = 1.002520 + 0.747637I		
a = 0.169318 - 0.323597I	-1.68225 - 8.27881I	0
b = -0.213329 + 0.028211I		
u = 1.002520 - 0.747637I		
a = 0.169318 + 0.323597I	-1.68225 + 8.27881I	0
b = -0.213329 - 0.028211I		
u = -0.690200 + 0.252371I		
a = -0.650362 - 1.021330I	1.59486 + 1.49978I	-0.07297 - 3.73762I
b = -1.241910 - 0.053379I		
u = -0.690200 - 0.252371I		
a = -0.650362 + 1.021330I	1.59486 - 1.49978I	-0.07297 + 3.73762I
b = -1.241910 + 0.053379I		
u = -1.208530 + 0.474510I		
a = 1.40585 + 0.74277I	-10.38010 + 2.53397I	0
b = 2.77928 + 1.38636I		
u = -1.208530 - 0.474510I		
a = 1.40585 - 0.74277I	-10.38010 - 2.53397I	0
b = 2.77928 - 1.38636I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.224290 + 0.452162I		
a = -1.73180 - 0.11246I	-10.54610 - 6.52041I	0
b = -3.45824 - 0.11592I		
u = 1.224290 - 0.452162I		
a = -1.73180 + 0.11246I	-10.54610 + 6.52041I	0
b = -3.45824 + 0.11592I		
u = 0.374424 + 0.557104I		
a = -0.298573 + 0.266159I	-1.95304 - 0.10654I	-6.12961 + 0.27546I
b = 0.242278 + 0.712052I		
u = 0.374424 - 0.557104I		
a = -0.298573 - 0.266159I	-1.95304 + 0.10654I	-6.12961 - 0.27546I
b = 0.242278 - 0.712052I		
u = -1.265280 + 0.418387I		
a = 1.407490 + 0.110564I	-7.15565 + 4.82155I	0
b = 2.67014 + 0.03204I		
u = -1.265280 - 0.418387I		
a = 1.407490 - 0.110564I	-7.15565 - 4.82155I	0
b = 2.67014 - 0.03204I		
u = 1.244170 + 0.526496I		
a = -1.215800 + 0.223081I	-6.36388 - 4.79049I	0
b = -2.34833 + 0.63093I		
u = 1.244170 - 0.526496I		
a = -1.215800 - 0.223081I	-6.36388 + 4.79049I	0
b = -2.34833 - 0.63093I		
u = -1.318950 + 0.404408I		
a = -1.115090 + 0.101971I	-12.04730 + 6.05783I	0
b = -2.54344 - 0.28658I		
u = -1.318950 - 0.404408I		
a = -1.115090 - 0.101971I	-12.04730 - 6.05783I	0
b = -2.54344 + 0.28658I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.275450 + 0.561649I		
a = 1.108870 - 0.514663I	-10.87960 - 4.18016I	0
b = 2.30481 - 0.53958I		
u = 1.275450 - 0.561649I		
a = 1.108870 + 0.514663I	-10.87960 + 4.18016I	0
b = 2.30481 + 0.53958I		
u = 0.604300		
a = -0.346901	-0.845319	-12.4810
b = 0.407027		
u = -1.283240 + 0.553621I		
a = -1.264520 - 0.190049I	-7.10608 + 10.99590I	0
b = -2.61620 - 0.22912I		
u = -1.283240 - 0.553621I		
a = -1.264520 + 0.190049I	-7.10608 - 10.99590I	0
b = -2.61620 + 0.22912I		
u = 1.340750 + 0.402994I		
a = 1.098720 - 0.190005I	-8.23565 + 0.56859I	0
b = 2.39136 - 0.49670I		
u = 1.340750 - 0.402994I		
a = 1.098720 + 0.190005I	-8.23565 - 0.56859I	0
b = 2.39136 + 0.49670I		
u = 1.285480 + 0.558802I		
a = 1.49634 - 0.09704I	-12.1399 - 16.7524I	0
b = 2.91711 - 0.19888I		
u = 1.285480 - 0.558802I		
a = 1.49634 + 0.09704I	-12.1399 + 16.7524I	0
b = 2.91711 + 0.19888I		
u = -1.35867 + 0.40255I		
a = -1.282670 - 0.351429I	-13.3361 - 6.1955I	0
b = -2.48277 - 0.74627I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.35867 - 0.40255I		
a = -1.282670 + 0.351429I	-13.3361 + 6.1955I	0
b = -2.48277 + 0.74627I		
u = 1.37038 + 0.38850I		
a = -1.53013 + 0.38050I	-11.12530 - 3.60644I	0
b = -2.45200 + 0.42466I		
u = 1.37038 - 0.38850I		
a = -1.53013 - 0.38050I	-11.12530 + 3.60644I	0
b = -2.45200 - 0.42466I		
u = -1.32407 + 0.56602I		
a = 1.383350 - 0.123531I	-9.81222 + 7.35945I	0
b = 2.40408 + 0.15262I		
u = -1.32407 - 0.56602I		
a = 1.383350 + 0.123531I	-9.81222 - 7.35945I	0
b = 2.40408 - 0.15262I		
u = -0.253383 + 0.206686I		
a = -1.85540 + 1.55580I	1.37257 - 1.37746I	0.75336 + 3.11081I
b = -0.751106 + 0.542245I		
u = -0.253383 - 0.206686I		
a = -1.85540 - 1.55580I	1.37257 + 1.37746I	0.75336 - 3.11081I
b = -0.751106 - 0.542245I		
u = -0.063007 + 0.180194I		
a = -5.07786 + 2.45613I	-1.92545 - 4.88532I	-6.44213 + 5.94399I
b = 0.548490 - 0.799172I		
u = -0.063007 - 0.180194I		
a = -5.07786 - 2.45613I	-1.92545 + 4.88532I	-6.44213 - 5.94399I
b = 0.548490 + 0.799172I		

II.
$$I_2^u = \langle -12u^{22} + 36u^{21} + \dots + 29b + 62, \ 17u^{22} + 65u^{21} + \dots + 29a + 178, \ u^{23} - 6u^{21} + \dots + 3u - 1 \rangle$$

(i) Arc colorings

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

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{9} = \begin{pmatrix} -0.586207u^{22} - 2.24138u^{21} + \dots - 4.20690u - 6.13793 \\ 0.413793u^{22} - 1.24138u^{21} + \dots - 3.20690u - 2.13793 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.06897u^{22} - 2.79310u^{21} + \dots + 17.0345u - 14.3103 \\ -5.79310u^{22} + 3.37931u^{21} + \dots - 8.10345u - 1.06897 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.586207u^{22} - 2.24138u^{21} + \dots - 4.20690u - 6.13793 \\ 4.13793u^{22} - 4.41379u^{21} + \dots + 2.93103u - 4.37931 \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -3.89655u^{22} - 1.31034u^{21} + \dots - 12.5517u - 7.03448 \\ -0.379310u^{22} - 0.862069u^{21} + \dots - 10.3103u - 1.20690 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 3.44828u^{22} - 6.34483u^{21} + \dots + 40.2759u - 20.4828 \\ -1.27586u^{22} - 0.172414u^{21} + \dots + 15.1379u - 7.24138 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 4.58621u^{22} + 2.24138u^{21} + \dots + 9.20690u + 7.13793 \\ -2.03448u^{22} + 5.10345u^{21} + \dots + 9.20690u + 7.13793 \\ -2.03448u^{22} + 5.10345u^{21} + \dots + 13.2414u + 9.82759 \\ 2.86207u^{22} - 2.58621u^{21} + \dots + 13.0690u - 0.620690 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{336}{29}u^{22} - \frac{486}{29}u^{21} + \dots + \frac{1079}{29}u - \frac{605}{29}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{23} - 12u^{22} + \dots + 17u - 1$
c_2	$u^{23} - 6u^{21} + \dots + 3u - 1$
c_3	$u^{23} + u^{22} + \dots + u + 1$
c_4	$u^{23} - 8u^{21} + \dots - u + 5$
<i>C</i> 5	$u^{23} - 6u^{21} + \dots + 3u + 1$
c_6	$u^{23} - 15u^{22} + \dots + 51u - 5$
c_7	$u^{23} + 3u^{22} + \dots - 24u + 19$
c ₈	$u^{23} + 8u^{22} + \dots - 3u - 1$
c_9	$u^{23} + 15u^{22} + \dots + 51u + 5$
c_{10}	$u^{23} - u^{22} + \dots + 40u - 19$
c_{11}	$u^{23} - 8u^{21} + \dots - u - 5$
c_{12}	$u^{23} + 4u^{22} + \dots - 7u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{23} + 4y^{22} + \dots + 69y - 1$
c_2, c_5	$y^{23} - 12y^{22} + \dots + 17y - 1$
c_3	$y^{23} + y^{22} + \dots + y - 1$
c_4, c_{11}	$y^{23} - 16y^{22} + \dots + 11y - 25$
c_6, c_9	$y^{23} - 7y^{22} + \dots - 329y - 25$
c_7	$y^{23} - 19y^{22} + \dots + 1184y - 361$
c ₈	$y^{23} + 24y^{21} + \dots + 11y - 1$
c_{10}	$y^{23} + 7y^{22} + \dots + 2018y - 361$
c_{12}	$y^{23} + 12y^{22} + \dots + 11y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.741033 + 0.707784I		
a = 0.346463 + 0.724986I	0.01294 + 3.03667I	-3.29385 - 4.70963I
b = 0.292617 + 0.066396I		
u = 0.741033 - 0.707784I		
a = 0.346463 - 0.724986I	0.01294 - 3.03667I	-3.29385 + 4.70963I
b = 0.292617 - 0.066396I		
u = 0.999976 + 0.286700I		
a = -0.466877 - 0.796422I	-0.49287 - 2.88561I	-6.13993 + 4.79776I
b = -0.787607 + 0.431045I		
u = 0.999976 - 0.286700I		
a = -0.466877 + 0.796422I	-0.49287 + 2.88561I	-6.13993 - 4.79776I
b = -0.787607 - 0.431045I		
u = -0.908909 + 0.291662I		
a = -0.687671 + 1.171800I	-3.10340 - 3.51447I	-10.21023 + 3.16506I
b = -1.00814 + 2.16111I		
u = -0.908909 - 0.291662I		
a = -0.687671 - 1.171800I	-3.10340 + 3.51447I	-10.21023 - 3.16506I
b = -1.00814 - 2.16111I		
u = -0.806475 + 0.679820I		
a = 0.577898 + 0.014874I	2.69708 + 3.05485I	1.87315 - 8.21021I
b = 0.708260 - 0.504395I		
u = -0.806475 - 0.679820I		
a = 0.577898 - 0.014874I	2.69708 - 3.05485I	1.87315 + 8.21021I
b = 0.708260 + 0.504395I		
u = -0.891878 + 0.236181I		
a = 0.51820 - 1.71239I	-2.96370 + 5.82303I	-10.5506 - 9.5130I
b = -0.178682 - 0.443321I		
u = -0.891878 - 0.236181I		
a = 0.51820 + 1.71239I	-2.96370 - 5.82303I	-10.5506 + 9.5130I
b = -0.178682 + 0.443321I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.042903 + 0.915541I		
a = -0.28646 + 1.73775I	-5.34196 - 1.12606I	-6.62744 - 0.03733I
b = -0.296665 + 0.230996I		
u = -0.042903 - 0.915541I		
a = -0.28646 - 1.73775I	-5.34196 + 1.12606I	-6.62744 + 0.03733I
b = -0.296665 - 0.230996I		
u = 0.958656 + 0.645813I		
a = -0.397487 - 0.543897I	-0.66948 - 8.24106I	-4.12296 + 7.31736I
b = -0.819521 - 0.826094I		
u = 0.958656 - 0.645813I		
a = -0.397487 + 0.543897I	-0.66948 + 8.24106I	-4.12296 - 7.31736I
b = -0.819521 + 0.826094I		
u = -0.932276 + 0.684370I		
a = 0.220474 + 0.637743I	2.30961 + 2.21517I	-5.35115 + 8.29705I
b = 0.614045 + 0.246642I		
u = -0.932276 - 0.684370I		
a = 0.220474 - 0.637743I	2.30961 - 2.21517I	-5.35115 - 8.29705I
b = 0.614045 - 0.246642I		
u = 0.732993 + 0.234436I		
a = 0.104383 + 0.620473I	0.500246 + 0.529647I	-2.76731 + 1.70335I
b = 1.38315 + 0.95696I		
u = 0.732993 - 0.234436I		
a = 0.104383 - 0.620473I	0.500246 - 0.529647I	-2.76731 - 1.70335I
b = 1.38315 - 0.95696I		
u = 1.249510 + 0.470199I		
a = -1.35976 + 0.50699I	-9.21032 - 3.62425I	-10.21319 + 2.92816I
b = -2.56148 + 0.64724I		
u = 1.249510 - 0.470199I		
a = -1.35976 - 0.50699I	-9.21032 + 3.62425I	-10.21319 - 2.92816I
b = -2.56148 - 0.64724I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.274960 + 0.459002I		
a = 1.45276 - 0.13786I	-9.24494 + 6.08267I	-10.44404 - 3.52440I
b = 2.72479 - 0.00258I		
u = -1.274960 - 0.459002I		
a = 1.45276 + 0.13786I	-9.24494 - 6.08267I	-10.44404 + 3.52440I
b = 2.72479 + 0.00258I		
u = 0.350478		
a = -4.04386	-4.91416	-7.30480
b = -1.14153		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{23} - 12u^{22} + \dots + 17u - 1)(u^{79} + 47u^{78} + \dots - 15u + 1) $
c_2	$ (u^{23} - 6u^{21} + \dots + 3u - 1)(u^{79} + u^{78} + \dots - 5u + 1) $
c_3	$(u^{23} + u^{22} + \dots + u + 1)(u^{79} + 2u^{78} + \dots - 1585u - 751)$
C4	$(u^{23} - 8u^{21} + \dots - u + 5)(u^{79} + u^{78} + \dots - 95u - 17)$
<i>C</i> 5	$(u^{23} - 6u^{21} + \dots + 3u + 1)(u^{79} + u^{78} + \dots - 5u + 1)$
<i>C</i> ₆	$(u^{23} - 15u^{22} + \dots + 51u - 5)(u^{79} + 8u^{78} + \dots + 228781u + 27293)$
C ₇	$(u^{23} + 3u^{22} + \dots - 24u + 19)$ $\cdot (u^{79} - 10u^{78} + \dots + 105789720u - 12203621)$
c ₈	$(u^{23} + 8u^{22} + \dots - 3u - 1)(u^{79} + 9u^{78} + \dots + 87u + 1)$
<i>c</i> ₉	$(u^{23} + 15u^{22} + \dots + 51u + 5)(u^{79} + 8u^{78} + \dots + 228781u + 27293)$
c_{10}	$(u^{23} - u^{22} + \dots + 40u - 19)$ $\cdot (u^{79} + 6u^{78} + \dots + 180673434u + 11333737)$
c_{11}	$(u^{23} - 8u^{21} + \dots - u - 5)(u^{79} + u^{78} + \dots - 95u - 17)$
c_{12}	$(u^{23} + 4u^{22} + \dots - 7u + 1)(u^{79} - 3u^{78} + \dots - 427561u + 16969)$ 21

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{23} + 4y^{22} + \dots + 69y - 1)(y^{79} - 23y^{78} + \dots + 201y - 1)$
c_2,c_5	$(y^{23} - 12y^{22} + \dots + 17y - 1)(y^{79} - 47y^{78} + \dots - 15y - 1)$
c_3	$(y^{23} + y^{22} + \dots + y - 1)(y^{79} - 18y^{78} + \dots + 1.45462 \times 10^7 y - 564001)$
c_4, c_{11}	$(y^{23} - 16y^{22} + \dots + 11y - 25)(y^{79} - 59y^{78} + \dots - 10729y - 289)$
c_6, c_9	$(y^{23} - 7y^{22} + \dots - 329y - 25)$ $\cdot (y^{79} - 86y^{78} + \dots + 37605309847y - 744907849)$
c_7	$(y^{23} - 19y^{22} + \dots + 1184y - 361)$ $\cdot (y^{79} - 74y^{78} + \dots + 3831097413487084y - 148928365511641)$
c ₈	$(y^{23} + 24y^{21} + \dots + 11y - 1)(y^{79} + 17y^{78} + \dots + 4035y - 1)$
c_{10}	$(y^{23} + 7y^{22} + \dots + 2018y - 361)$ $\cdot (y^{79} + 72y^{78} + \dots + 6604146335611458y - 128453594385169)$
c_{12}	$(y^{23} + 12y^{22} + \dots + 11y - 1)$ $\cdot (y^{79} + 57y^{78} + \dots + 62831435943y - 287946961)$