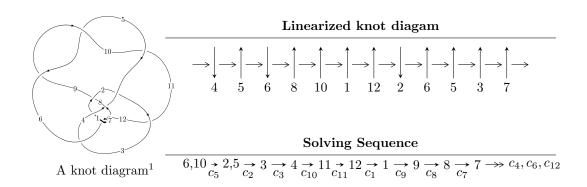
$12n_{0687} (K12n_{0687})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 9.93374 \times 10^{151} u^{69} - 5.73011 \times 10^{151} u^{68} + \dots + 1.25167 \times 10^{152} b - 1.15684 \times 10^{152}, \\ &- 2.27978 \times 10^{152} u^{69} + 7.27815 \times 10^{151} u^{68} + \dots + 1.25167 \times 10^{152} a - 1.09032 \times 10^{153}, \\ &u^{70} + 8 u^{68} + \dots + 12 u + 1 \rangle \\ I_2^u &= \langle 784 u^{16} - 1472 u^{15} + \dots + 281 b - 1616, \ -u^{16} - 4 u^{14} + \dots + a - 7, \ u^{17} - u^{16} + \dots - u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 87 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.
$$I_1^u = \langle 9.93 \times 10^{151} u^{69} - 5.73 \times 10^{151} u^{68} + \cdots + 1.25 \times 10^{152} b - 1.16 \times 10^{152}, \ -2.28 \times 10^{152} u^{69} + 7.28 \times 10^{151} u^{68} + \cdots + 1.25 \times 10^{152} a - 1.09 \times 10^{153}, \ u^{70} + 8 u^{68} + \cdots + 12 u + 1 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} 1.82140u^{69} - 0.581477u^{68} + \dots + 39.0109u + 8.71095 \\ -0.793642u^{69} + 0.457798u^{68} + \dots + 1.47985u + 0.924244 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1.02178u^{69} - 0.283802u^{68} + \dots + 35.3344u + 9.05372 \\ -0.484690u^{69} + 0.265454u^{68} + \dots - 1.29264u + 0.626569 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 1.50647u^{69} - 0.549256u^{68} + \dots + 36.6270u + 8.42715 \\ -0.484690u^{69} + 0.265454u^{68} + \dots - 1.29264u + 0.626569 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.210413u^{69} + 0.456635u^{68} + \dots - 57.5910u - 11.5890 \\ 0.171585u^{69} + 0.157443u^{68} + \dots - 6.10514u - 1.41447 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 1.13758u^{69} - 0.539841u^{68} + \dots + 39.0714u + 7.72721 \\ 0.261369u^{69} - 0.0100471u^{68} + \dots - 1.35091u + 0.206159 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -1.63790u^{69} + 0.361732u^{68} + \dots - 57.8284u - 11.6027 \\ -0.708579u^{69} - 0.0963778u^{68} + \dots - 16.6684u - 2.12525 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.39909u^{69} + 0.856722u^{68} + \dots - 38.1398u - 5.68756 \\ -0.279079u^{69} - 0.230487u^{68} + \dots - 17.0325u - 1.58453 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-0.717657u^{69} + 2.08595u^{68} + \dots + 98.0282u + 17.8328$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{70} - 8u^{69} + \dots + 54u + 9$
c_2	$u^{70} - 7u^{69} + \dots + 9260u - 7239$
<i>c</i> ₃	$u^{70} + 2u^{69} + \dots + 564u + 41$
C_4	$u^{70} - u^{69} + \dots - 22u - 1$
c_5, c_9, c_{10}	$u^{70} + 8u^{68} + \dots - 12u + 1$
c_6, c_7, c_{12}	$u^{70} + 34u^{68} + \dots + 17u + 3$
<i>C</i> ₈	$u^{70} - 2u^{69} + \dots + 4105u + 2083$
c_{11}	$u^{70} + u^{69} + \dots - 329u + 1651$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{70} - 10y^{69} + \dots - 144y + 81$
c_2	$y^{70} - 61y^{69} + \dots - 1022459722y + 52403121$
<i>c</i> ₃	$y^{70} + 12y^{69} + \dots - 24782y + 1681$
C ₄	$y^{70} + 7y^{69} + \dots + 122y + 1$
c_5, c_9, c_{10}	$y^{70} + 16y^{69} + \dots - 30y + 1$
c_6, c_7, c_{12}	$y^{70} + 68y^{69} + \dots - 223y + 9$
c ₈	$y^{70} + 12y^{69} + \dots + 246685969y + 4338889$
c_{11}	$y^{70} - 65y^{69} + \dots - 76523125y + 2725801$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.182629 + 0.959522I		
a = 1.001330 + 0.504116I	-5.19104 + 2.89870I	-1.83556 - 3.69030I
b = -0.495567 + 0.539126I		
u = 0.182629 - 0.959522I		
a = 1.001330 - 0.504116I	-5.19104 - 2.89870I	-1.83556 + 3.69030I
b = -0.495567 - 0.539126I		
u = 0.889971 + 0.615220I		
a = 1.49599 - 0.81473I	-2.94953 + 6.14576I	0
b = 0.658738 + 0.726934I		
u = 0.889971 - 0.615220I		
a = 1.49599 + 0.81473I	-2.94953 - 6.14576I	0
b = 0.658738 - 0.726934I		
u = 0.467157 + 1.015360I		
a = 0.469020 - 0.334689I	-4.76852 - 0.93744I	0
b = -0.91014 + 1.45911I		
u = 0.467157 - 1.015360I		
a = 0.469020 + 0.334689I	-4.76852 + 0.93744I	0
b = -0.91014 - 1.45911I		
u = -0.222651 + 0.847009I		
a = 1.14984 + 1.14399I	-7.73355 + 3.72028I	-2.51438 - 0.93811I
b = -0.0748484 + 0.0360553I		
u = -0.222651 - 0.847009I		
a = 1.14984 - 1.14399I	-7.73355 - 3.72028I	-2.51438 + 0.93811I
b = -0.0748484 - 0.0360553I		
u = -0.751668 + 0.837280I		
a = -1.72961 - 0.46280I	-0.30303 - 6.28207I	0
b = 1.14330 + 1.25142I		
u = -0.751668 - 0.837280I		
a = -1.72961 + 0.46280I	-0.30303 + 6.28207I	0
b = 1.14330 - 1.25142I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.770010 + 0.372544I		
a = 0.581630 - 0.055990I	-4.08900 + 2.25007I	3.53748 - 2.27099I
b = 0.144106 + 0.825142I		
u = 0.770010 - 0.372544I		
a = 0.581630 + 0.055990I	-4.08900 - 2.25007I	3.53748 + 2.27099I
b = 0.144106 - 0.825142I		
u = -1.14498		
a = 1.73239	2.60015	-58.8670
b = 1.53512		
u = -0.268041 + 0.804909I		
a = 0.542252 - 0.218224I	-0.98658 - 2.03464I	3.76283 + 3.73374I
b = -0.423247 - 0.869174I		
u = -0.268041 - 0.804909I		
a = 0.542252 + 0.218224I	-0.98658 + 2.03464I	3.76283 - 3.73374I
b = -0.423247 + 0.869174I		
u = -0.656557 + 0.954242I	0.001.400 . 0.00.40507	
a = -0.493373 - 1.239310I	-0.681468 + 0.834270I	0
$\frac{b = -0.00110 + 1.66937I}{u = -0.656557 - 0.954242I}$		
	0.601460 0.0040701	
a = -0.493373 + 1.239310I	-0.681468 - 0.834270I	0
b = -0.00110 - 1.66937I $u = 0.825164 + 0.845513I$		
a = -0.025104 + 0.045515I $a = -1.40194 + 0.58938I$	4.72221 + 4.24472I	0
b = 0.92803 - 1.30897I	4.12221 + 4.244121	U
$\frac{v = 0.92803 - 1.308977}{u = 0.825164 - 0.845513I}$		
a = -1.40194 - 0.58938I	4.72221 - 4.24472I	0
b = 0.92803 + 1.30897I		
u = 1.068270 + 0.572212I		
a = -0.776105 + 0.152158I	0.233976 + 0.759074I	0
b = 0.735609 - 0.965380I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.068270 - 0.572212I		
a = -0.776105 - 0.152158I	0.233976 - 0.759074I	0
b = 0.735609 + 0.965380I		
u = -0.819050 + 0.902886I		
a = -1.25597 - 1.03649I	1.70243 - 3.06412I	0
b = 0.75273 + 1.61897I		
u = -0.819050 - 0.902886I		
a = -1.25597 + 1.03649I	1.70243 + 3.06412I	0
b = 0.75273 - 1.61897I		
u = -0.532408 + 0.562547I		
a = -0.491267 + 0.375201I	-6.45795 - 6.80158I	1.45639 + 9.56884I
b = 0.05004 - 1.69837I		
u = -0.532408 - 0.562547I		
a = -0.491267 - 0.375201I	-6.45795 + 6.80158I	1.45639 - 9.56884I
b = 0.05004 + 1.69837I		
u = 0.763532 + 0.981407I		
a = -0.747021 + 1.045390I	4.29081 + 1.75973I	0
b = 0.29445 - 1.52258I		
u = 0.763532 - 0.981407I		
a = -0.747021 - 1.045390I	4.29081 - 1.75973I	0
b = 0.29445 + 1.52258I		
u = 0.031790 + 0.748955I		
a = 1.337290 + 0.340343I	-2.07518 - 1.88050I	-0.58788 + 2.54582I
b = -1.69605 - 0.47490I		
u = 0.031790 - 0.748955I		
a = 1.337290 - 0.340343I	-2.07518 + 1.88050I	-0.58788 - 2.54582I
b = -1.69605 + 0.47490I		
u = -1.026810 + 0.770847I		
a = -0.931991 - 0.352914I	4.78970 - 2.73592I	0
b = 0.727009 + 1.062520I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.026810 - 0.770847I		
a = -0.931991 + 0.352914I	4.78970 + 2.73592I	0
b = 0.727009 - 1.062520I		
u = -0.076174 + 0.691781I		
a = 1.76879 - 0.64957I	-8.05518 + 4.99038I	-5.61415 + 0.00335I
b = -2.25934 + 0.77220I		
u = -0.076174 - 0.691781I		
a = 1.76879 + 0.64957I	-8.05518 - 4.99038I	-5.61415 - 0.00335I
b = -2.25934 - 0.77220I		
u = 0.403606 + 0.564847I		
a = -0.472960 + 0.090622I	-0.86012 + 4.21216I	6.35099 - 11.74346I
b = 0.124640 + 1.386760I		
u = 0.403606 - 0.564847I		
a = -0.472960 - 0.090622I	-0.86012 - 4.21216I	6.35099 + 11.74346I
b = 0.124640 - 1.386760I		
u = 0.019991 + 0.681568I		
a = 0.664079 - 1.210490I	-1.57608 - 2.34912I	0.437437 + 0.644148I
b = 0.074205 - 0.421986I		
u = 0.019991 - 0.681568I		
a = 0.664079 + 1.210490I	-1.57608 + 2.34912I	0.437437 - 0.644148I
b = 0.074205 + 0.421986I		
u = -0.316585 + 0.590067I		
a = -3.02818 + 1.36465I	-7.54675 - 6.57227I	-0.27416 + 11.76800I
b = 1.287870 + 0.396140I		
u = -0.316585 - 0.590067I		
a = -3.02818 - 1.36465I	-7.54675 + 6.57227I	-0.27416 - 11.76800I
b = 1.287870 - 0.396140I		
u = -1.075700 + 0.803829I		
a = 1.005200 + 0.615424I	4.84131 - 0.55610I	0
b = 0.311248 - 1.377500I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.075700 - 0.803829I		
a = 1.005200 - 0.615424I	4.84131 + 0.55610I	0
b = 0.311248 + 1.377500I		
u = 0.902166 + 1.001410I		
a = 1.057310 - 0.402054I	-4.61180 + 3.36092I	0
b = -0.42852 + 1.63869I		
u = 0.902166 - 1.001410I		
a = 1.057310 + 0.402054I	-4.61180 - 3.36092I	0
b = -0.42852 - 1.63869I		
u = 1.093450 + 0.794950I		
a = 0.905104 - 0.704207I	5.66823 - 4.85184I	0
b = 0.255022 + 1.286370I		
u = 1.093450 - 0.794950I		
a = 0.905104 + 0.704207I	5.66823 + 4.85184I	0
b = 0.255022 - 1.286370I		
u = -1.121410 + 0.784623I		
a = 0.828517 + 0.738103I	-0.59567 + 8.98753I	0
b = 0.236105 - 1.268720I		
u = -1.121410 - 0.784623I		
a = 0.828517 - 0.738103I	-0.59567 - 8.98753I	0
b = 0.236105 + 1.268720I		
u = 0.436857 + 0.420062I		
a = -1.56143 - 2.06163I	-0.46074 + 3.68809I	9.20342 - 10.39195I
b = 1.015010 - 0.438737I		
u = 0.436857 - 0.420062I		
a = -1.56143 + 2.06163I	-0.46074 - 3.68809I	9.20342 + 10.39195I
b = 1.015010 + 0.438737I		
u = -0.89928 + 1.09857I		
a = -0.710636 - 0.699922I	3.77288 - 4.30359I	0
b = 0.373865 + 1.162200I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.89928 - 1.09857I		
a = -0.710636 + 0.699922I	3.77288 + 4.30359I	0
b = 0.373865 - 1.162200I		
u = -0.08015 + 1.43152I		
a = 0.111230 - 0.162640I	-3.91938 - 2.59263I	0
b = -0.744088 + 0.291066I		
u = -0.08015 - 1.43152I		
a = 0.111230 + 0.162640I	-3.91938 + 2.59263I	0
b = -0.744088 - 0.291066I		
u = -0.91292 + 1.10722I		
a = 1.054940 + 0.541284I	3.87345 - 6.65045I	0
b = -0.76481 - 1.90183I		
u = -0.91292 - 1.10722I		
a = 1.054940 - 0.541284I	3.87345 + 6.65045I	0
b = -0.76481 + 1.90183I		
u = 0.90704 + 1.11763I		
a = 1.107070 - 0.599871I	4.62505 + 12.08600I	0
b = -0.87122 + 1.85913I		
u = 0.90704 - 1.11763I		
a = 1.107070 + 0.599871I	4.62505 - 12.08600I	0
b = -0.87122 - 1.85913I		
u = -0.90562 + 1.12890I		
a = 1.159610 + 0.620259I	-1.7219 - 16.2840I	0
b = -0.92779 - 1.82023I		
u = -0.90562 - 1.12890I		
a = 1.159610 - 0.620259I	-1.7219 + 16.2840I	0
b = -0.92779 + 1.82023I		
u = 1.13832 + 0.95435I		
a = -0.791876 + 0.485812I	1.21898 + 4.01853I	0
b = 0.603110 - 1.032090I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.13832 - 0.95435I		
a = -0.791876 - 0.485812I	1.21898 - 4.01853I	0
b = 0.603110 + 1.032090I		
u = -0.491312 + 0.042330I		
a = 0.813900 + 0.845312I	1.014060 + 0.126536I	10.90445 - 2.01322I
b = 0.487599 + 0.375306I		
u = -0.491312 - 0.042330I		
a = 0.813900 - 0.845312I	1.014060 - 0.126536I	10.90445 + 2.01322I
b = 0.487599 - 0.375306I		
u = 0.89008 + 1.25065I		
a = -0.591908 + 0.620866I	-1.81693 + 6.40974I	0
b = 0.274267 - 1.010060I		
u = 0.89008 - 1.25065I		
a = -0.591908 - 0.620866I	-1.81693 - 6.40974I	0
b = 0.274267 + 1.010060I		
u = 0.17276 + 1.55205I		
a = -0.088754 + 0.194039I	-10.80100 + 6.09312I	0
b = -0.414173 - 0.312547I		
u = 0.17276 - 1.55205I		
a = -0.088754 - 0.194039I	-10.80100 - 6.09312I	0
b = -0.414173 + 0.312547I		
u = -0.165276 + 0.289045I		
a = -1.72562 - 2.09252I	-2.39258 - 2.81193I	4.50166 + 4.86143I
b = 0.875139 - 0.770810I		
u = -0.165276 - 0.289045I		
a = -1.72562 + 2.09252I	-2.39258 + 2.81193I	4.50166 - 4.86143I
b = 0.875139 + 0.770810I		
u = -0.137380		
a = 6.75871	1.05954	8.79670
b = 0.782505		

II.
$$I_2^u = \langle 784u^{16} - 1472u^{15} + \dots + 281b - 1616, \ -u^{16} - 4u^{14} + \dots + a - 7, \ u^{17} - u^{16} + \dots - u + 1 \rangle$$

(i) Arc colorings

$$a_{6} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{2} = \begin{pmatrix} 0 \\ -2.79004u^{16} + 5.23843u^{15} + \dots - 14.9786u + 5.75089 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -1.79004u^{16} + 5.23843u^{15} + \dots - 12.9786u + 13.7509 \\ -1.61210u^{16} + 3.06762u^{15} + \dots - 9.74021u + 3.30249 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} -0.177936u^{16} + 2.17082u^{15} + \dots - 3.23843u + 10.4484 \\ -1.61210u^{16} + 3.06762u^{15} + \dots - 9.74021u + 3.30249 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 10.3025u^{16} - 9.69039u^{15} + \dots + 43.5053u - 2.56228 \\ 1.84698u^{16} - 0.733096u^{15} + \dots - 1.18505u + 4.82562 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -5.93594u^{16} + 10.8185u^{15} + \dots - 36.4342u + 13.3986 \\ 1.53381u^{16} - 2.51246u^{15} + \dots + 11.7153u - 5.34520 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 9.30249u^{16} - 8.69039u^{15} + \dots + 34.5053u - 1.56228 \\ -0.00711744u^{16} + 0.686833u^{15} + \dots - 5.72954u + 2.17794 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -2.48754u^{16} - 1.45196u^{15} + \dots + 10.5267u - 19.8114 \\ 4.92171u^{16} - 4.44484u^{15} + \dots + 15.9751u + 0.957295 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$\frac{2928}{281}u^{16} - \frac{7172}{281}u^{15} + \dots + \frac{18839}{281}u - \frac{13628}{281}u^{16}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} - 7u^{16} + \dots + 7u - 1$
c_2	$u^{17} + 10u^{16} + \dots + 7u + 1$
<i>c</i> 3	$u^{17} - 3u^{16} + \dots + u - 1$
c_4	$u^{17} + 4u^{15} + \dots + 3u - 1$
<i>C</i> ₅	$u^{17} - u^{16} + \dots - u + 1$
c_6, c_7	$u^{17} + u^{16} + \dots + 2u + 1$
<i>C</i> ₈	$u^{17} + 3u^{16} + \dots + 4u^2 + 1$
c_9, c_{10}	$u^{17} + u^{16} + \dots - u - 1$
c_{11}	$u^{17} - 2u^{16} + \dots - 6u + 1$
c_{12}	$u^{17} - u^{16} + \dots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{17} - 5y^{16} + \dots + 17y - 1$
c_2	$y^{17} - 8y^{16} + \dots - 9y - 1$
c_3	$y^{17} + 9y^{16} + \dots - 13y - 1$
c_4	$y^{17} + 8y^{16} + \dots + 11y - 1$
c_5, c_9, c_{10}	$y^{17} + 9y^{16} + \dots - 17y - 1$
c_6, c_7, c_{12}	$y^{17} + 17y^{16} + \dots - 24y - 1$
c ₈	$y^{17} - 11y^{16} + \dots - 8y - 1$
c_{11}	$y^{17} - 8y^{16} + \dots - 14y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.09099		
a = -1.84015	2.66549	64.1610
b = -1.44593		
u = 0.081066 + 0.881798I		
a = 0.253907 + 0.232514I	-3.35095 - 1.89433I	0.39933 + 2.13556I
b = 0.351765 - 1.188740I		
u = 0.081066 - 0.881798I		
a = 0.253907 - 0.232514I	-3.35095 + 1.89433I	0.39933 - 2.13556I
b = 0.351765 + 1.188740I		
u = 0.759591 + 0.834731I		
a = -0.926163 + 0.781600I	-2.84481 + 5.18632I	2.68899 - 3.82989I
b = -0.031880 - 0.497291I		
u = 0.759591 - 0.834731I		
a = -0.926163 - 0.781600I	-2.84481 - 5.18632I	2.68899 + 3.82989I
b = -0.031880 + 0.497291I		
u = 0.945692 + 0.860913I		
a = -1.057260 + 0.608745I	0.63478 + 3.45959I	1.40689 - 2.05093I
b = 0.856724 - 1.108260I		
u = 0.945692 - 0.860913I		
a = -1.057260 - 0.608745I	0.63478 - 3.45959I	1.40689 + 2.05093I
b = 0.856724 + 1.108260I		
u = -0.924682 + 0.905753I		
a = -1.012340 - 0.596735I	4.25625 - 3.38186I	8.68961 + 3.41215I
b = 0.607612 + 1.271600I		
u = -0.924682 - 0.905753I		
a = -1.012340 + 0.596735I	4.25625 + 3.38186I	8.68961 - 3.41215I
b = 0.607612 - 1.271600I		
u = -0.012323 + 1.348120I		
a = -0.449907 - 0.010058I	-4.38848 - 2.75040I	-5.64109 + 6.59552I
b = 1.089120 - 0.269541I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.012323 - 1.348120I		
a = -0.449907 + 0.010058I	-4.38848 + 2.75040I	-5.64109 - 6.59552I
b = 1.089120 + 0.269541I		
u = 0.089446 + 0.606473I		
a = 1.54762 + 0.76818I	-1.35598 + 3.18194I	1.32413 - 8.23419I
b = -0.646460 + 0.884390I		
u = 0.089446 - 0.606473I		
a = 1.54762 - 0.76818I	-1.35598 - 3.18194I	1.32413 + 8.23419I
b = -0.646460 - 0.884390I		
u = 0.121328 + 1.408910I		
a = -0.507302 + 0.085491I	-11.43630 + 6.17014I	-6.02947 - 4.38565I
b = 0.851353 + 0.138665I		
u = 0.121328 - 1.408910I		
a = -0.507302 - 0.085491I	-11.43630 - 6.17014I	-6.02947 + 4.38565I
b = 0.851353 - 0.138665I		
u = -0.014622 + 0.494941I		
a = 3.07152 - 0.24078I	-7.52130 - 5.63580I	0.08114 + 5.24551I
b = -1.35527 - 1.02921I		
u = -0.014622 - 0.494941I		
a = 3.07152 + 0.24078I	-7.52130 + 5.63580I	0.08114 - 5.24551I
b = -1.35527 + 1.02921I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ \left (u^{17} - 7u^{16} + \dots + 7u - 1)(u^{70} - 8u^{69} + \dots + 54u + 9) \right $
c_2	$(u^{17} + 10u^{16} + \dots + 7u + 1)(u^{70} - 7u^{69} + \dots + 9260u - 7239)$
c_3	$(u^{17} - 3u^{16} + \dots + u - 1)(u^{70} + 2u^{69} + \dots + 564u + 41)$
c_4	$ (u^{17} + 4u^{15} + \dots + 3u - 1)(u^{70} - u^{69} + \dots - 22u - 1) $
c_5	$ (u^{17} - u^{16} + \dots - u + 1)(u^{70} + 8u^{68} + \dots - 12u + 1) $
c_6, c_7	$ (u^{17} + u^{16} + \dots + 2u + 1)(u^{70} + 34u^{68} + \dots + 17u + 3) $
c_8	$(u^{17} + 3u^{16} + \dots + 4u^2 + 1)(u^{70} - 2u^{69} + \dots + 4105u + 2083)$
c_{9}, c_{10}	$(u^{17} + u^{16} + \dots - u - 1)(u^{70} + 8u^{68} + \dots - 12u + 1)$
c_{11}	$(u^{17} - 2u^{16} + \dots - 6u + 1)(u^{70} + u^{69} + \dots - 329u + 1651)$
c_{12}	$(u^{17} - u^{16} + \dots + 2u - 1)(u^{70} + 34u^{68} + \dots + 17u + 3)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1	$y^{17} - 5y^{16} + \dots + 17y - 1)(y^{70} - 10y^{69} + \dots - 144y + 81)$	
c_2	$(y^{17} - 8y^{16} + \dots - 9y - 1)$ $\cdot (y^{70} - 61y^{69} + \dots - 1022459722y + 52403121)$	
c_3	$(y^{17} + 9y^{16} + \dots - 13y - 1)(y^{70} + 12y^{69} + \dots - 24782y + 1681)$	
c_4	$(y^{17} + 8y^{16} + \dots + 11y - 1)(y^{70} + 7y^{69} + \dots + 122y + 1)$	
c_5, c_9, c_{10}	$(y^{17} + 9y^{16} + \dots - 17y - 1)(y^{70} + 16y^{69} + \dots - 30y + 1)$	
c_6, c_7, c_{12}	$(y^{17} + 17y^{16} + \dots - 24y - 1)(y^{70} + 68y^{69} + \dots - 223y + 9)$	
c ₈	$(y^{17} - 11y^{16} + \dots - 8y - 1)$ $\cdot (y^{70} + 12y^{69} + \dots + 246685969y + 4338889)$	
c_{11}	$(y^{17} - 8y^{16} + \dots - 14y - 1)$ $\cdot (y^{70} - 65y^{69} + \dots - 76523125y + 2725801)$	