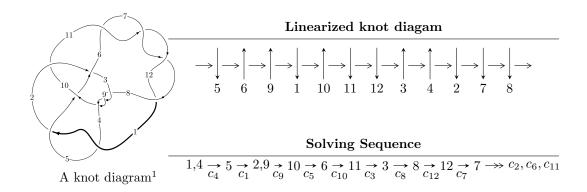
$12a_{1238} (K12a_{1238})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 1.62330 \times 10^{233} u^{81} - 1.12307 \times 10^{233} u^{80} + \dots + 7.45191 \times 10^{232} b + 8.93587 \times 10^{234}, \\ &- 1.56282 \times 10^{234} u^{81} - 3.71971 \times 10^{233} u^{80} + \dots + 3.72595 \times 10^{233} a - 2.44109 \times 10^{236}, \\ &u^{82} - 29 u^{80} + \dots + 580 u + 25 \rangle \\ I_2^u &= \langle -57 u^{16} + 139 u^{15} + \dots + b + 105, \ 18 u^{16} - 43 u^{15} + \dots + a - 24, \ u^{17} - 3 u^{16} + \dots - 3 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 99 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.
$$I_1^u = \langle 1.62 \times 10^{233} u^{81} - 1.12 \times 10^{233} u^{80} + \dots + 7.45 \times 10^{232} b + 8.94 \times 10^{234}, \ -1.56 \times 10^{234} u^{81} - 3.72 \times 10^{233} u^{80} + \dots + 3.73 \times 10^{233} a - 2.44 \times 10^{236}, \ u^{82} - 29 u^{80} + \dots + 580 u + 25 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{9} = \begin{pmatrix} 4.19443u^{81} + 0.998323u^{80} + \dots + 12103.0u + 655.158 \\ -2.17837u^{81} + 1.50709u^{80} + \dots - 2279.85u - 119.914 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.01606u^{81} + 2.50541u^{80} + \dots + 9823.13u + 535.245 \\ -2.17837u^{81} + 1.50709u^{80} + \dots - 2279.85u - 119.914 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 4.65242u^{81} - 1.59030u^{80} + \dots + 8732.87u + 474.826 \\ -2.43795u^{81} + 1.31148u^{80} + \dots - 3819.62u - 208.334 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 3.51386u^{81} + 1.04832u^{80} + \dots + 10330.4u + 553.673 \\ -2.43681u^{81} + 1.96106u^{80} + \dots - 1979.41u - 101.915 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 3.51386u^{81} + 2.77225u^{80} + \dots - 13921.6u - 746.885 \\ 0.100451u^{81} + 0.634586u^{80} + \dots + 2030.94u + 123.163 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 4.09643u^{81} - 2.86268u^{80} + \dots + 2668.54u + 89.1960 \\ 3.37277u^{81} - 1.62221u^{80} + \dots + 4955.44u + 259.192 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 2.14385u^{81} - 0.151279u^{80} + \dots + 4824.36u + 223.253 \\ 2.86534u^{81} - 0.999373u^{80} + \dots + 5564.66u + 300.621 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -4.86395u^{81} + 0.711191u^{80} + \dots - 10254.4u - 525.349 \\ -2.54931u^{81} + 1.00523u^{80} + \dots + 4203.94u - 218.636 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes =
$$2.46764u^{81} + 2.98675u^{80} + \cdots + 13265.8u + 747.283$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_4	$u^{82} - 29u^{80} + \dots + 580u + 25$
c_2	$u^{82} - 5u^{81} + \dots + 2079u + 931$
c_3,c_8,c_9	$u^{82} - u^{81} + \dots + 181u + 173$
<i>C</i> ₅	$u^{82} + 2u^{81} + \dots + 17u - 1$
c_6, c_7, c_{11} c_{12}	$u^{82} - u^{81} + \dots - 79u - 7$
c_{10}	$u^{82} + 2u^{81} + \dots - 3884u + 1867$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{82} - 58y^{81} + \dots - 62350y + 625$
c_2	$y^{82} + 15y^{81} + \dots + 9331805y + 866761$
c_3,c_8,c_9	$y^{82} - 77y^{81} + \dots + 235043y + 29929$
<i>C</i> 5	$y^{82} + 64y^{80} + \dots - 209y + 1$
c_6, c_7, c_{11} c_{12}	$y^{82} - 101y^{81} + \dots - 2405y + 49$
c_{10}	$y^{82} - 34y^{81} + \dots - 204854804y + 3485689$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.934521 + 0.347459I		
a = 0.256869 - 0.427602I	-1.56095 + 1.32976I	0
b = 0.366312 - 0.532440I		
u = -0.934521 - 0.347459I		
a = 0.256869 + 0.427602I	-1.56095 - 1.32976I	0
b = 0.366312 + 0.532440I		
u = -0.985856 + 0.133508I		
a = 1.42926 - 1.69263I	-0.18186 + 2.94088I	0
b = -1.338240 - 0.226304I		
u = -0.985856 - 0.133508I		
a = 1.42926 + 1.69263I	-0.18186 - 2.94088I	0
b = -1.338240 + 0.226304I		
u = 0.680966 + 0.774466I		
a = -1.285520 - 0.554886I	-3.26211 + 2.41526I	0
b = 1.343090 + 0.338900I		
u = 0.680966 - 0.774466I		
a = -1.285520 + 0.554886I	-3.26211 - 2.41526I	0
b = 1.343090 - 0.338900I		
u = 0.943857		
a = 1.46985	-0.856208	0
b = -1.84151		
u = 0.000750 + 0.932894I		
a = -1.87427 - 0.30470I	7.14647 - 2.26483I	0
b = 1.45322 - 0.06591I		
u = 0.000750 - 0.932894I		
a = -1.87427 + 0.30470I	7.14647 + 2.26483I	0
b = 1.45322 + 0.06591I		
u = -1.066400 + 0.200953I		
a = -1.82922 + 1.16741I	-7.87907 + 6.39586I	0
b = 1.46675 + 0.30221I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.066400 - 0.200953I		
a = -1.82922 - 1.16741I	-7.87907 - 6.39586I	0
b = 1.46675 - 0.30221I		
u = -0.738427 + 0.486038I		
a = -0.819329 + 0.132184I	-7.99328 + 2.08374I	0
b = -0.131483 + 0.984194I		
u = -0.738427 - 0.486038I		
a = -0.819329 - 0.132184I	-7.99328 - 2.08374I	0
b = -0.131483 - 0.984194I		
u = 0.937847 + 0.605715I		
a = 1.39663 + 1.28141I	-4.06787 - 7.61264I	0
b = -1.35817 + 0.50981I		
u = 0.937847 - 0.605715I		
a = 1.39663 - 1.28141I	-4.06787 + 7.61264I	0
b = -1.35817 - 0.50981I		
u = -0.164401 + 1.104770I		
a = -0.068114 + 0.588364I	-8.99433 + 5.16744I	0
b = -0.219137 - 0.621589I		
u = -0.164401 - 1.104770I		
a = -0.068114 - 0.588364I	-8.99433 - 5.16744I	0
b = -0.219137 + 0.621589I		
u = -1.086900 + 0.269679I		
a = 0.334063 + 0.325688I	-3.51083 + 2.83032I	0
b = -0.863302 + 0.735990I		
u = -1.086900 - 0.269679I		
a = 0.334063 - 0.325688I	-3.51083 - 2.83032I	0
b = -0.863302 - 0.735990I		
u = 0.991470 + 0.534374I		
a = -1.08848 - 1.20120I	3.12917 - 5.58769I	0
b = 1.362720 - 0.373905I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.991470 - 0.534374I		
a = -1.08848 + 1.20120I	3.12917 + 5.58769I	0
b = 1.362720 + 0.373905I		
u = -0.868419 + 0.092461I		
a = -0.59650 + 2.11772I	0.28543 - 1.79070I	0
b = 1.190840 + 0.094481I		
u = -0.868419 - 0.092461I		
a = -0.59650 - 2.11772I	0.28543 + 1.79070I	0
b = 1.190840 - 0.094481I		
u = -0.102526 + 0.849065I		
a = -0.034516 - 0.292271I	-0.90967 + 3.66182I	0
b = 0.351504 + 0.471570I		
u = -0.102526 - 0.849065I		
a = -0.034516 + 0.292271I	-0.90967 - 3.66182I	0
b = 0.351504 - 0.471570I		
u = 1.081370 + 0.424377I		
a = 0.745037 + 0.932264I	3.77253 - 2.11296I	0
b = -1.384510 + 0.245822I		
u = 1.081370 - 0.424377I		_
a = 0.745037 - 0.932264I	3.77253 + 2.11296I	0
b = -1.384510 - 0.245822I		
u = 0.465567 + 0.689784I		_
a = 1.41558 + 0.55639I	4.60977 + 0.87355I	0
b = -1.43484 - 0.12440I		
u = 0.465567 - 0.689784I		_
a = 1.41558 - 0.55639I	4.60977 - 0.87355I	0
b = -1.43484 + 0.12440I		
u = -0.792665 + 0.196482I	4.440.00	
a = 0.373105 - 0.661464I	-1.11360 + 1.22701I	0 4.63087I
b = 0.071568 - 0.766823I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.792665 - 0.196482I		
a = 0.373105 + 0.661464I	-1.11360 - 1.22701I	0. + 4.63087I
b = 0.071568 + 0.766823I		
u = 1.19140		
a = -0.259535	-1.56818	0
b = 1.41908		
u = 0.807827		
a = -1.35683	-2.84786	1.78860
b = 0.556755		
u = 1.194700 + 0.129051I		
a = -0.531258 + 0.795686I	-4.75226 + 0.05742I	0
b = 0.095650 + 0.553160I		
u = 1.194700 - 0.129051I		
a = -0.531258 - 0.795686I	-4.75226 - 0.05742I	0
b = 0.095650 - 0.553160I		
u = 1.166270 + 0.321488I		
a = -0.153610 - 0.853500I	-2.23682 - 4.25562I	0
b = 0.225832 - 0.623122I		
u = 1.166270 - 0.321488I		
a = -0.153610 + 0.853500I	-2.23682 + 4.25562I	0
b = 0.225832 + 0.623122I		
u = -1.208780 + 0.276098I		
a = -0.584063 - 0.090912I	-11.84370 + 4.09765I	0
b = 1.013600 - 0.893633I		
u = -1.208780 - 0.276098I		
a = -0.584063 + 0.090912I	-11.84370 - 4.09765I	0
b = 1.013600 + 0.893633I		
u = -0.093132 + 1.252800I		
a = 1.78653 - 0.00049I	4.74746 - 6.03651I	0
b = -1.41648 + 0.17073I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.093132 - 1.252800I		
a = 1.78653 + 0.00049I	4.74746 + 6.03651I	0
b = -1.41648 - 0.17073I		
u = 0.728476		
a = -1.20443	6.36750	-14.0750
b = 1.71906		
u = 0.887021 + 0.912615I		
a = 1.79799 + 1.13995I	-6.29540 - 2.57592I	0
b = -1.188290 - 0.136424I		
u = 0.887021 - 0.912615I		
a = 1.79799 - 1.13995I	-6.29540 + 2.57592I	0
b = -1.188290 + 0.136424I		
u = -0.698988 + 0.129902I		
a = -0.18085 - 2.88076I	-6.50500 - 4.75604I	-7.37990 + 2.43004I
b = -1.144550 + 0.136710I		
u = -0.698988 - 0.129902I		
a = -0.18085 + 2.88076I	-6.50500 + 4.75604I	-7.37990 - 2.43004I
b = -1.144550 - 0.136710I		
u = 1.027950 + 0.833407I		
a = -1.64501 - 0.95974I	0.88385 - 3.01527I	0
b = 1.235600 - 0.062510I		
u = 1.027950 - 0.833407I		
a = -1.64501 + 0.95974I	0.88385 + 3.01527I	0
b = 1.235600 + 0.062510I		
u = 1.266880 + 0.432843I		
a = 0.403243 + 0.462038I	-4.98259 - 8.18738I	0
b = -0.342569 + 0.861570I		
u = 1.266880 - 0.432843I		
a = 0.403243 - 0.462038I	-4.98259 + 8.18738I	0
b = -0.342569 - 0.861570I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.343210 + 0.002023I		
a = 0.758946 + 0.291628I	-13.80490 - 2.62993I	0
b = -0.377797 + 0.711575I		
u = 1.343210 - 0.002023I		
a = 0.758946 - 0.291628I	-13.80490 + 2.62993I	0
b = -0.377797 - 0.711575I		
u = -1.295940 + 0.436278I		
a = -0.371872 + 0.202924I	-4.55328 + 1.51053I	0
b = 0.182700 + 0.498660I		
u = -1.295940 - 0.436278I		
a = -0.371872 - 0.202924I	-4.55328 - 1.51053I	0
b = 0.182700 - 0.498660I		
u = 1.43015		
a = -0.634353	-1.52558	0
b = 1.32243		
u = 1.35007 + 0.48468I		
a = -0.467441 - 0.197285I	-13.6514 - 10.5493I	0
b = 0.361745 - 1.034720I		
u = 1.35007 - 0.48468I		
a = -0.467441 + 0.197285I	-13.6514 + 10.5493I	0
b = 0.361745 + 1.034720I		
u = -1.35585 + 0.50291I		
a = 0.848857 - 1.108750I	2.90248 + 7.50413I	0
b = -1.387010 - 0.256622I		
u = -1.35585 - 0.50291I		
a = 0.848857 + 1.108750I	2.90248 - 7.50413I	0
b = -1.387010 + 0.256622I		
u = -1.42649 + 0.32907I		
a = -0.303670 + 0.877231I	-1.06903 + 2.42900I	0
b = 1.281450 + 0.170102I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.42649 - 0.32907I		
a = -0.303670 - 0.877231I	-1.06903 - 2.42900I	0
b = 1.281450 - 0.170102I		
u = 0.107130 + 0.515113I		
a = 0.478221 - 0.232915I	0.836840 + 0.981184I	3.21796 - 3.18238I
b = -0.480551 - 0.311322I		
u = 0.107130 - 0.515113I		
a = 0.478221 + 0.232915I	0.836840 - 0.981184I	3.21796 + 3.18238I
b = -0.480551 + 0.311322I		
u = 1.21664 + 0.84263I		
a = 1.66419 + 0.65205I	0.44389 - 4.10272I	0
b = -1.376890 + 0.199175I		
u = 1.21664 - 0.84263I		
a = 1.66419 - 0.65205I	0.44389 + 4.10272I	0
b = -1.376890 - 0.199175I		
u = -0.18740 + 1.47187I		
a = -1.71372 + 0.17580I	-3.87177 - 8.43053I	0
b = 1.386330 - 0.259259I		
u = -0.18740 - 1.47187I		
a = -1.71372 - 0.17580I	-3.87177 + 8.43053I	0
b = 1.386330 + 0.259259I		
u = -1.36890 + 0.61647I		
a = -1.17582 + 0.99420I	0.71934 + 12.51550I	0
b = 1.44888 + 0.34016I		
u = -1.36890 - 0.61647I		
a = -1.17582 - 0.99420I	0.71934 - 12.51550I	0
b = 1.44888 - 0.34016I		
u = -1.39571 + 0.69298I		
a = 1.36270 - 0.85917I	-7.7647 + 15.7366I	0
b = -1.49254 - 0.41405I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.39571 - 0.69298I		
a = 1.36270 + 0.85917I	-7.7647 - 15.7366I	0
b = -1.49254 + 0.41405I		
u = 1.31553 + 0.88818I		
a = -1.76649 - 0.51065I	-7.36965 - 4.81620I	0
b = 1.47035 - 0.26304I		
u = 1.31553 - 0.88818I		
a = -1.76649 + 0.51065I	-7.36965 + 4.81620I	0
b = 1.47035 + 0.26304I		
u = -1.53840 + 0.46979I		
a = 0.486909 - 0.045020I	-13.46780 + 1.47338I	0
b = -0.427428 - 0.623833I		
u = -1.53840 - 0.46979I		
a = 0.486909 + 0.045020I	-13.46780 - 1.47338I	0
b = -0.427428 + 0.623833I		
u = -0.242978 + 0.057112I		
a = -3.75188 - 3.47217I	-8.57778 - 2.10932I	-7.06076 - 4.05023I
b = -0.402691 - 0.642389I		
u = -0.242978 - 0.057112I		
a = -3.75188 + 3.47217I	-8.57778 + 2.10932I	-7.06076 + 4.05023I
b = -0.402691 + 0.642389I		
u = -1.75946		
a = 0.319097	-12.7835	0
b = -1.09179		
u = -0.174156 + 0.108446I		
a = 1.11542 + 3.03605I	-1.125760 - 0.792790I	-5.63857 + 0.46918I
b = 0.284389 + 0.455864I		
u = -0.174156 - 0.108446I		
a = 1.11542 - 3.03605I	-1.125760 + 0.792790I	-5.63857 - 0.46918I
b = 0.284389 - 0.455864I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.182672		
a = 5.86792	4.17983	4.89490
b = -1.54836		
u = 2.22736		
a = 0.974429	-12.0641	0
b = -1.18778		

II.
$$I_2^u = \langle -57u^{16} + 139u^{15} + \dots + b + 105, \ 18u^{16} - 43u^{15} + \dots + a - 24, \ u^{17} - 3u^{16} + \dots - 3u + 1 \rangle$$

(i) Arc colorings

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

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

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

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

$$a_{9} = \begin{pmatrix} -18u^{16} + 43u^{15} + \dots - 35u + 24 \\ 57u^{16} - 139u^{15} + \dots + 124u - 105 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 39u^{16} - 96u^{15} + \dots + 89u - 81 \\ 57u^{16} - 139u^{15} + \dots + 124u - 105 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -u^{16} + 10u^{14} + \dots - 4u - 7 \\ u^{16} - 2u^{15} + \dots + u - 2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 14u^{16} - 35u^{15} + \dots + 31u - 33 \\ 74u^{16} - 180u^{15} + \dots + 165u - 139 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -10u^{16} + 28u^{15} + \dots + 165u - 139 \\ -u^{16} + 3u^{15} + \dots + 4u + 4 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -33u^{16} + 85u^{15} + \dots - 62u + 68 \\ -105u^{16} + 258u^{15} + \dots - 217u + 191 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -62u^{16} + 152u^{15} + \dots - 127u + 120 \\ -26u^{16} + 68u^{15} + \dots - 48u + 67 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 33u^{16} - 85u^{15} + \dots + 62u - 69 \\ 18u^{16} - 49u^{15} + \dots + 21u - 42 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes

$$= 279u^{16} - 670u^{15} - 1521u^{14} + 4682u^{13} + 1978u^{12} - 12842u^{11} + 2106u^{10} + 18722u^9 - 9032u^8 - 16445u^7 + 11324u^6 + 8791u^5 - 8052u^4 - 3132u^3 + 2975u^2 + 642u - 489$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{17} + 3u^{16} + \dots - 3u - 1$
c_2	$u^{17} - 3u^{14} + \dots - 2u + 1$
<i>c</i> ₃	$u^{17} - 10u^{15} + \dots + 2u - 1$
c_4	$u^{17} - 3u^{16} + \dots - 3u + 1$
c_5	$u^{17} + u^{16} + \dots + 2u^3 + 1$
c_6, c_7	$u^{17} - 12u^{15} + \dots + 2u + 1$
c_{8}, c_{9}	$u^{17} - 10u^{15} + \dots + 2u + 1$
c_{10}	$u^{17} + 3u^{16} + \dots - 3u - 1$
c_{11}, c_{12}	$u^{17} - 12u^{15} + \dots + 2u - 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{17} - 17y^{16} + \dots + 17y - 1$
c_2	$y^{17} - 12y^{15} + \dots - 6y - 1$
c_3, c_8, c_9	$y^{17} - 20y^{16} + \dots + 12y - 1$
<i>C</i> ₅	$y^{17} - 3y^{16} + \dots + 6y^2 - 1$
c_6, c_7, c_{11} c_{12}	$y^{17} - 24y^{16} + \dots + 24y - 1$
c_{10}	$y^{17} - 9y^{16} + \dots + 11y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.671622 + 0.694992I		
a = -2.66663 - 0.87339I	-5.47381 - 6.16611I	-4.47218 + 5.21995I
b = 1.340170 - 0.277588I		
u = 0.671622 - 0.694992I		
a = -2.66663 + 0.87339I	-5.47381 + 6.16611I	-4.47218 - 5.21995I
b = 1.340170 + 0.277588I		
u = -0.820990 + 0.307027I		
a = -0.609243 + 0.729341I	-1.85299 + 1.83764I	-10.22921 - 7.07662I
b = -0.410410 + 0.486858I		
u = -0.820990 - 0.307027I		
a = -0.609243 - 0.729341I	-1.85299 - 1.83764I	-10.22921 + 7.07662I
b = -0.410410 - 0.486858I		
u = -1.111800 + 0.192631I		
a = -0.592249 - 0.482310I	-3.71820 + 0.31253I	-7.35969 - 1.39651I
b = 0.402589 - 0.187905I		
u = -1.111800 - 0.192631I		
a = -0.592249 + 0.482310I	-3.71820 - 0.31253I	-7.35969 + 1.39651I
b = 0.402589 + 0.187905I		
u = 0.973005 + 0.667865I		
a = 1.82110 + 1.10902I	1.52051 - 4.20124I	-0.29072 + 6.76546I
b = -1.315980 + 0.182191I		
u = 0.973005 - 0.667865I		
a = 1.82110 - 1.10902I	1.52051 + 4.20124I	-0.29072 - 6.76546I
b = -1.315980 - 0.182191I		
u = -0.662661 + 0.322036I		
a = 1.65111 - 0.63989I	-8.81272 + 2.78715I	-10.84432 - 5.92009I
b = 0.454005 - 0.653361I		
u = -0.662661 - 0.322036I		
a = 1.65111 + 0.63989I	-8.81272 - 2.78715I	-10.84432 + 5.92009I
b = 0.454005 + 0.653361I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.663836		
a = 2.25446	3.65134	-10.8550
b = -1.58316		
u = 0.557324		
a = -0.640649	6.66575	13.2870
b = 1.67161		
u = 1.39919 + 0.47372I		
a = -0.775209 - 0.874913I	-0.54538 - 1.32796I	-3.55104 + 0.18556I
b = 1.283880 - 0.084545I		
u = 1.39919 - 0.47372I		
a = -0.775209 + 0.874913I	-0.54538 + 1.32796I	-3.55104 - 0.18556I
b = 1.283880 + 0.084545I		
u = 0.496618		
a = -0.662890	0.265606	1.03910
b = -1.73598		
u = -1.71714		
a = 0.620217	-13.8143	-13.8510
b = -0.646248		
u = 2.10262		
a = 0.771100	-11.6411	4.87440
b = -1.21474		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{17} + 3u^{16} + \dots - 3u - 1)(u^{82} - 29u^{80} + \dots + 580u + 25) $
c_2	$(u^{17} - 3u^{14} + \dots - 2u + 1)(u^{82} - 5u^{81} + \dots + 2079u + 931)$
c_3	$(u^{17} - 10u^{15} + \dots + 2u - 1)(u^{82} - u^{81} + \dots + 181u + 173)$
c_4	$(u^{17} - 3u^{16} + \dots - 3u + 1)(u^{82} - 29u^{80} + \dots + 580u + 25)$
c_5	$(u^{17} + u^{16} + \dots + 2u^3 + 1)(u^{82} + 2u^{81} + \dots + 17u - 1)$
c_6, c_7	$(u^{17} - 12u^{15} + \dots + 2u + 1)(u^{82} - u^{81} + \dots - 79u - 7)$
c_8,c_9	$(u^{17} - 10u^{15} + \dots + 2u + 1)(u^{82} - u^{81} + \dots + 181u + 173)$
c_{10}	$(u^{17} + 3u^{16} + \dots - 3u - 1)(u^{82} + 2u^{81} + \dots - 3884u + 1867)$
c_{11}, c_{12}	$(u^{17} - 12u^{15} + \dots + 2u - 1)(u^{82} - u^{81} + \dots - 79u - 7)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_4	$(y^{17} - 17y^{16} + \dots + 17y - 1)(y^{82} - 58y^{81} + \dots - 62350y + 625)$
c_2	$(y^{17} - 12y^{15} + \dots - 6y - 1)(y^{82} + 15y^{81} + \dots + 9331805y + 866761)$
c_3,c_8,c_9	$(y^{17} - 20y^{16} + \dots + 12y - 1)(y^{82} - 77y^{81} + \dots + 235043y + 29929)$
<i>C</i> ₅	$(y^{17} - 3y^{16} + \dots + 6y^2 - 1)(y^{82} + 64y^{80} + \dots - 209y + 1)$
c_6, c_7, c_{11} c_{12}	$(y^{17} - 24y^{16} + \dots + 24y - 1)(y^{82} - 101y^{81} + \dots - 2405y + 49)$
c_{10}	$(y^{17} - 9y^{16} + \dots + 11y - 1)$ $\cdot (y^{82} - 34y^{81} + \dots - 204854804y + 3485689)$