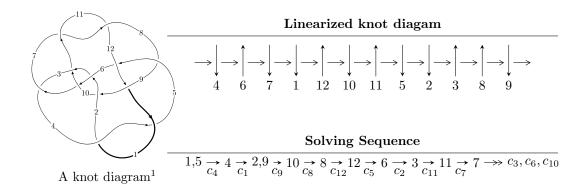
$12a_{0894} \ (K12a_{0894})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle -1.23311 \times 10^{1321} u^{182} - 1.04572 \times 10^{1322} u^{181} + \dots + 9.42107 \times 10^{1324} b + 6.84728 \times 10^{1326}, \\ &\quad 2.05752 \times 10^{1324} u^{182} - 1.58554 \times 10^{1325} u^{181} + \dots + 4.70704 \times 10^{1327} a + 3.38310 \times 10^{1329}, \\ &\quad u^{183} - 4 u^{182} + \dots - 183798 u - 52461 \rangle \\ I_2^u &= \langle 1.76355 \times 10^{53} u^{46} + 1.58871 \times 10^{54} u^{45} + \dots + 8.44121 \times 10^{52} b + 1.62815 \times 10^{54}, \\ &\quad - 2.19349 \times 10^{53} u^{46} - 1.93560 \times 10^{54} u^{45} + \dots + 1.20589 \times 10^{52} a - 1.36685 \times 10^{54}, \\ &\quad u^{47} + 9 u^{46} + \dots + 24 u + 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 230 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.

$$\begin{array}{l} \text{I. } I_1^u = \langle -1.23 \times 10^{1321} u^{182} - 1.05 \times 10^{1322} u^{181} + \dots + 9.42 \times 10^{1324} b + \\ 6.85 \times 10^{1326}, \ 2.06 \times 10^{1324} u^{182} - 1.59 \times 10^{1325} u^{181} + \dots + 4.71 \times 10^{1327} a + \\ 3.38 \times 10^{1329}, \ u^{183} - 4 u^{182} + \dots - 183798 u - 52461 \rangle \end{array}$$

(i) Arc colorings

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

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

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

$$a_{9} = \begin{pmatrix} -0.000437115u^{182} + 0.00336845u^{181} + \cdots - 250.884u - 71.8732 \\ 0.000130888u^{182} + 0.00110998u^{181} + \cdots - 248.349u - 72.6805 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.000331403u^{182} + 0.00448532u^{181} + \cdots - 500.110u - 140.941 \\ 0.0000835116u^{182} + 0.00156077u^{181} + \cdots - 287.666u - 84.3878 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.000306227u^{182} + 0.00447843u^{181} + \cdots - 499.233u - 144.554 \\ 0.000130888u^{182} + 0.00110998u^{181} + \cdots - 248.349u - 72.6805 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -0.00347163u^{182} + 0.0110800u^{181} + \cdots + 602.397u + 123.260 \\ -0.00167816u^{182} + 0.00558788u^{181} + \cdots + 256.078u + 53.2486 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -0.00432757u^{182} + 0.0193125u^{181} + \cdots - 98.1824u - 70.2159 \\ -0.00251588u^{182} + 0.0123166u^{181} + \cdots - 224.975u - 97.0449 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.000725381u^{182} + 0.00428746u^{181} + \cdots - 247.036u - 92.9010 \\ -0.000269656u^{182} + 0.00213422u^{181} + \cdots - 237.320u - 81.4091 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.00444480u^{182} + 0.0143521u^{181} + \cdots + 796.155u + 173.803 \\ -0.00259495u^{182} + 0.00946862u^{181} + \cdots + 294.790u + 58.7802 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -0.00446128u^{182} + 0.0166268u^{181} + \cdots + 464.515u + 79.1026 \\ -0.00310175u^{182} + 0.0118779u^{181} + \cdots + 246.090u + 34.9016 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $0.00341695u^{182} 0.0213085u^{181} + \dots + 1013.78u + 305.421$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1,c_4	$u^{183} + 4u^{182} + \dots - 183798u + 52461$
c_2	$u^{183} - 2u^{182} + \dots - 318294u - 40021$
<i>c</i> ₃	$u^{183} + u^{182} + \dots + 2518528u - 157696$
<i>C</i> ₅	$u^{183} + 2u^{182} + \dots - 626724u - 79331$
c_6	$u^{183} - 2u^{182} + \dots + 1244u + 203$
c_7, c_{11}	$u^{183} - 3u^{182} + \dots - 13392267u - 702451$
c ₈	$7(7u^{183} - 18u^{182} + \dots + 2.12491 \times 10^7 u + 234650)$
<i>C</i> 9	$7(7u^{183} - 34u^{182} + \dots + 2.80348 \times 10^7 u - 1352596)$
c_{10}	$7(7u^{183} + u^{182} + \dots + 354748u + 24677)$
c_{12}	$u^{183} - u^{182} + \dots + 9088u - 448$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{183} + 142y^{182} + \dots - 132303001266y - 2752156521$
c_2	$y^{183} + 2y^{182} + \dots + 214292514570y - 1601680441$
<i>c</i> ₃	$y^{183} + 57y^{182} + \dots - 1746473320448y - 24868028416$
c_5	$y^{183} - 20y^{182} + \dots + 171767282162y - 6293407561$
c_6	$y^{183} - 6y^{182} + \dots + 3080998y - 41209$
c_7,c_{11}	$y^{183} - 151y^{182} + \dots + 52196002203823y - 493437407401$
<i>c</i> ₈	$49(49y^{183} + 3834y^{182} + \dots + 5.29211 \times 10^{14}y - 5.50606 \times 10^{10})$
<i>c</i> ₉	49 $ \cdot (49y^{183} - 2136y^{182} + \dots + 122950525332321y - 1829515939216) $
c_{10}	$49(49y^{183} - 2479y^{182} + \dots + 5.75236 \times 10^{10}y - 6.08954 \times 10^8)$
c_{12}	$y^{183} + 25y^{182} + \dots + 604160y - 200704$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.353361 + 0.935758I		
a = 0.222524 + 0.249072I	1.74024 - 1.78318I	0
b = -0.94781 + 1.58440I		
u = 0.353361 - 0.935758I		
a = 0.222524 - 0.249072I	1.74024 + 1.78318I	0
b = -0.94781 - 1.58440I		
u = -0.996758 + 0.017899I		
a = 0.743697 - 0.766270I	4.30464 + 7.27339I	0
b = -0.717105 + 1.009770I		
u = -0.996758 - 0.017899I		
a = 0.743697 + 0.766270I	4.30464 - 7.27339I	0
b = -0.717105 - 1.009770I		
u = -1.005900 + 0.068998I		
a = 1.010940 - 0.591258I	-3.33360 + 9.53239I	0
b = -0.755267 + 0.718964I		
u = -1.005900 - 0.068998I		
a = 1.010940 + 0.591258I	-3.33360 - 9.53239I	0
b = -0.755267 - 0.718964I		
u = -0.878637 + 0.509873I		
a = -0.346505 - 0.879630I	-1.96779 - 0.01153I	0
b = 0.594251 + 0.741620I		
u = -0.878637 - 0.509873I		
a = -0.346505 + 0.879630I	-1.96779 + 0.01153I	0
b = 0.594251 - 0.741620I		
u = -0.263132 + 0.999119I		
a = 0.362798 + 0.310372I	4.99563 + 4.29408I	0
b = -1.81846 + 0.02694I		
u = -0.263132 - 0.999119I		
a = 0.362798 - 0.310372I	4.99563 - 4.29408I	0
b = -1.81846 - 0.02694I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.946198 + 0.066457I		
a = 0.952445 + 0.634107I	2.76487 - 5.29634I	0
b = -0.600046 - 1.133960I		
u = 0.946198 - 0.066457I		
a = 0.952445 - 0.634107I	2.76487 + 5.29634I	0
b = -0.600046 + 1.133960I		
u = 0.366480 + 0.990925I		
a = 1.57808 - 0.46897I	-0.25857 - 4.52320I	0
b = -0.497082 - 0.728812I		
u = 0.366480 - 0.990925I		
a = 1.57808 + 0.46897I	-0.25857 + 4.52320I	0
b = -0.497082 + 0.728812I		
u = 1.057230 + 0.043906I		
a = -0.762989 - 0.253049I	-3.58567 - 1.82509I	0
b = 0.848577 + 0.622499I		
u = 1.057230 - 0.043906I		
a = -0.762989 + 0.253049I	-3.58567 + 1.82509I	0
b = 0.848577 - 0.622499I		
u = -0.220734 + 0.913464I		
a = -0.52460 - 1.34256I	-0.85432 + 4.03337I	0
b = 0.397501 - 1.207380I		
u = -0.220734 - 0.913464I		
a = -0.52460 + 1.34256I	-0.85432 - 4.03337I	0
b = 0.397501 + 1.207380I		
u = 1.048520 + 0.168591I		
a = 0.963110 + 0.345834I	-3.37727 - 2.33210I	0
b = -0.673624 - 0.515132I		
u = 1.048520 - 0.168591I		
a = 0.963110 - 0.345834I	-3.37727 + 2.33210I	0
b = -0.673624 + 0.515132I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.218643 + 0.911081I		
a = 0.460486 + 0.578131I	1.79037 - 1.85431I	0
b = -0.325169 + 1.101020I		
u = 0.218643 - 0.911081I		
a = 0.460486 - 0.578131I	1.79037 + 1.85431I	0
b = -0.325169 - 1.101020I		
u = -0.234778 + 0.906789I		
a = 1.66370 - 0.15218I	6.87653 + 1.24248I	0
b = -0.569059 + 0.991582I		
u = -0.234778 - 0.906789I		
a = 1.66370 + 0.15218I	6.87653 - 1.24248I	0
b = -0.569059 - 0.991582I		
u = -0.130337 + 1.056720I		
a = 1.24837 + 0.79566I	7.56133 + 5.13956I	0
b = -0.64933 + 1.40979I		
u = -0.130337 - 1.056720I		
a = 1.24837 - 0.79566I	7.56133 - 5.13956I	0
b = -0.64933 - 1.40979I		
u = 0.102430 + 1.061440I		
a = -0.129601 - 0.937600I	2.55597 - 0.05704I	0
b = 0.25067 - 2.05061I		
u = 0.102430 - 1.061440I		
a = -0.129601 + 0.937600I	2.55597 + 0.05704I	0
b = 0.25067 + 2.05061I		
u = -0.081149 + 1.064730I		
a = 0.251050 + 1.350510I	1.88430 + 6.51448I	0
b = -0.15888 + 1.75753I		
u = -0.081149 - 1.064730I		
a = 0.251050 - 1.350510I	1.88430 - 6.51448I	0
b = -0.15888 - 1.75753I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.788921 + 0.480921I		
a = -0.692194 - 0.773701I	2.43066 - 7.71293I	0
b = 1.07762 - 0.95301I		
u = -0.788921 - 0.480921I		
a = -0.692194 + 0.773701I	2.43066 + 7.71293I	0
b = 1.07762 + 0.95301I		
u = 0.716335 + 0.569837I		
a = -1.027840 + 0.274184I	-2.10543 - 4.06058I	0
b = 0.695669 + 1.130800I		
u = 0.716335 - 0.569837I		
a = -1.027840 - 0.274184I	-2.10543 + 4.06058I	0
b = 0.695669 - 1.130800I		
u = 0.047368 + 1.087940I		
a = -1.128930 - 0.832709I	2.46520 + 1.29570I	0
b = 0.611281 - 1.044630I		
u = 0.047368 - 1.087940I		
a = -1.128930 + 0.832709I	2.46520 - 1.29570I	0
b = 0.611281 + 1.044630I		
u = -0.939429 + 0.586393I		
a = 0.404949 - 0.510478I	0.98787 - 2.24903I	0
b = -0.128717 + 0.660503I		
u = -0.939429 - 0.586393I		
a = 0.404949 + 0.510478I	0.98787 + 2.24903I	0
b = -0.128717 - 0.660503I		
u = 0.300353 + 0.838277I		
a = 1.68395 + 0.66185I	5.99125 - 3.44755I	0
b = -0.614944 - 0.759039I		
u = 0.300353 - 0.838277I		
a = 1.68395 - 0.66185I	5.99125 + 3.44755I	0
b = -0.614944 + 0.759039I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.887469		
a = 0.549715	-1.71845	0
b = 0.0101625		
u = 0.083492 + 1.116180I		
a = 0.777356 - 0.469521I	7.44089 - 4.05881I	0
b = -1.20757 - 1.67865I		
u = 0.083492 - 1.116180I		
a = 0.777356 + 0.469521I	7.44089 + 4.05881I	0
b = -1.20757 + 1.67865I		
u = -0.326054 + 1.075000I		
a = 1.32904 + 0.91384I	-0.19557 - 1.78627I	0
b = -0.487753 + 0.736488I		
u = -0.326054 - 1.075000I		
a = 1.32904 - 0.91384I	-0.19557 + 1.78627I	0
b = -0.487753 - 0.736488I		
u = 0.798489 + 0.356338I		
a = 0.695522 - 0.796183I	-2.16763 + 0.10355I	0
b = -0.246041 + 0.425888I		
u = 0.798489 - 0.356338I		
a = 0.695522 + 0.796183I	-2.16763 - 0.10355I	0
b = -0.246041 - 0.425888I		
u = -0.073928 + 1.131220I		
a = -1.59262 + 0.61619I	2.24288 + 4.34518I	0
b = 0.529033 + 0.585016I		
u = -0.073928 - 1.131220I		
a = -1.59262 - 0.61619I	2.24288 - 4.34518I	0
b = 0.529033 - 0.585016I		
u = 0.004398 + 1.140070I		
a = -1.49668 - 0.93345I	8.34632 - 0.46353I	0
b = 0.009395 - 0.924953I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.004398 - 1.140070I		
a = -1.49668 + 0.93345I	8.34632 + 0.46353I	0
b = 0.009395 + 0.924953I		
u = -0.269624 + 1.111210I		
a = 0.338858 + 0.100705I	0.41612 + 7.30003I	0
b = -1.35123 - 0.91146I		
u = -0.269624 - 1.111210I		
a = 0.338858 - 0.100705I	0.41612 - 7.30003I	0
b = -1.35123 + 0.91146I		
u = 0.536428 + 0.653241I		
a = -0.141720 + 0.153670I	-1.77674 - 0.85721I	0
b = 0.916447 - 0.227859I		
u = 0.536428 - 0.653241I		
a = -0.141720 - 0.153670I	-1.77674 + 0.85721I	0
b = 0.916447 + 0.227859I		
u = -0.484167 + 1.050870I		
a = -0.457670 - 0.232103I	4.17759 + 12.48690I	0
b = 1.92140 + 0.11159I		
u = -0.484167 - 1.050870I		
a = -0.457670 + 0.232103I	4.17759 - 12.48690I	0
b = 1.92140 - 0.11159I		
u = -0.045426 + 1.157010I		
a = -1.35060 + 1.31535I	8.21427 + 2.89848I	0
b = -0.025880 + 0.733816I		
u = -0.045426 - 1.157010I		
a = -1.35060 - 1.31535I	8.21427 - 2.89848I	0
b = -0.025880 - 0.733816I		
u = 0.422818 + 0.724471I		
a = -0.766881 - 0.223474I	1.88033 - 1.35372I	0
b = 1.45001 - 1.15461I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.422818 - 0.724471I		
a = -0.766881 + 0.223474I	1.88033 + 1.35372I	0
b = 1.45001 + 1.15461I		
u = 0.831342		
a = 1.33235	-0.483949	0
b = -0.948288		
u = 0.028257 + 1.174870I		
a = -0.261634 + 0.021606I	2.99812 - 1.63320I	0
b = 0.963858 + 0.991946I		
u = 0.028257 - 1.174870I		
a = -0.261634 - 0.021606I	2.99812 + 1.63320I	0
b = 0.963858 - 0.991946I		
u = -0.458504 + 1.089010I		
a = -1.297240 - 0.413359I	-0.02440 + 4.89286I	0
b = 0.777085 - 1.091510I		
u = -0.458504 - 1.089010I		
a = -1.297240 + 0.413359I	-0.02440 - 4.89286I	0
b = 0.777085 + 1.091510I		
u = 0.849201 + 0.825469I		
a = 0.552684 - 0.426529I	0.09413 - 3.09571I	0
b = -1.31940 - 0.63872I		
u = 0.849201 - 0.825469I		
a = 0.552684 + 0.426529I	0.09413 + 3.09571I	0
b = -1.31940 + 0.63872I		
u = -0.070119 + 1.205630I		
a = -0.980071 - 0.294533I	8.07248 - 3.44277I	0
b = -0.113218 - 0.931316I		
u = -0.070119 - 1.205630I		
a = -0.980071 + 0.294533I	8.07248 + 3.44277I	0
b = -0.113218 + 0.931316I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.190972 + 1.193950I		
a = 1.08866 - 1.22515I	7.83745 + 11.70160I	0
b = 0.081944 - 0.832532I		
u = -0.190972 - 1.193950I		
a = 1.08866 + 1.22515I	7.83745 - 11.70160I	0
b = 0.081944 + 0.832532I		
u = 0.368971 + 1.165730I		
a = 0.630338 - 0.408816I	3.11301 - 4.28028I	0
b = -1.027180 - 0.081457I		
u = 0.368971 - 1.165730I		
a = 0.630338 + 0.408816I	3.11301 + 4.28028I	0
b = -1.027180 + 0.081457I		
u = -0.244356 + 0.737492I		
a = 0.108667 + 0.550986I	0.96823 - 5.42523I	0
b = -0.364932 - 1.178350I		
u = -0.244356 - 0.737492I		
a = 0.108667 - 0.550986I	0.96823 + 5.42523I	0
b = -0.364932 + 1.178350I		
u = -0.083731 + 1.247490I		
a = -0.406869 + 1.134010I	7.69278 + 0.35419I	0
b = -0.230124 + 0.845856I		
u = -0.083731 - 1.247490I		
a = -0.406869 - 1.134010I	7.69278 - 0.35419I	0
b = -0.230124 - 0.845856I		
u = 0.463139 + 0.589493I		
a = 0.12131 + 1.53874I	1.81954 - 2.23994I	0
b = 0.343879 + 0.860642I		
u = 0.463139 - 0.589493I		
a = 0.12131 - 1.53874I	1.81954 + 2.23994I	0
b = 0.343879 - 0.860642I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.155664 + 1.251670I		
a = 1.061570 - 0.317033I	4.45230 - 5.21175I	0
b = -1.010970 - 0.816892I		
u = 0.155664 - 1.251670I		
a = 1.061570 + 0.317033I	4.45230 + 5.21175I	0
b = -1.010970 + 0.816892I		
u = -1.190140 + 0.438550I		
a = -0.512550 + 0.493114I	4.52957 - 3.86574I	0
b = 0.770570 - 0.854996I		
u = -1.190140 - 0.438550I		
a = -0.512550 - 0.493114I	4.52957 + 3.86574I	0
b = 0.770570 + 0.854996I		
u = -0.286880 + 1.240540I		
a = 0.959494 + 0.261179I	6.22217 + 0.94119I	0
b = -0.601745 + 1.060420I		
u = -0.286880 - 1.240540I		
a = 0.959494 - 0.261179I	6.22217 - 0.94119I	0
b = -0.601745 - 1.060420I		
u = -0.264929 + 1.260310I		
a = -1.163140 - 0.628802I	2.82705 + 5.02590I	0
b = 0.895777 - 0.921002I		
u = -0.264929 - 1.260310I		
a = -1.163140 + 0.628802I	2.82705 - 5.02590I	0
b = 0.895777 + 0.921002I		
u = 0.206855 + 1.281810I		
a = 0.849259 + 1.000950I	5.91223 - 3.80922I	0
b = -0.011487 + 0.895548I		
u = 0.206855 - 1.281810I		
a = 0.849259 - 1.000950I	5.91223 + 3.80922I	0
b = -0.011487 - 0.895548I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.656234 + 1.121240I		
a = 0.464258 - 0.265021I	-0.45448 - 3.59651I	0
b = -0.543883 - 0.357689I		
u = 0.656234 - 1.121240I		
a = 0.464258 + 0.265021I	-0.45448 + 3.59651I	0
b = -0.543883 + 0.357689I		
u = -0.691619 + 0.056259I		
a = 0.233198 + 1.275080I	5.89009 - 2.09906I	0
b = -0.566991 - 0.939656I		
u = -0.691619 - 0.056259I		
a = 0.233198 - 1.275080I	5.89009 + 2.09906I	0
b = -0.566991 + 0.939656I		
u = 1.293840 + 0.185622I		
a = 0.555880 + 0.262877I	1.05501 - 4.51121I	0
b = -0.957850 - 1.029210I		
u = 1.293840 - 0.185622I		
a = 0.555880 - 0.262877I	1.05501 + 4.51121I	0
b = -0.957850 + 1.029210I		
u = -0.198799 + 1.294160I		
a = -1.40590 - 0.71544I	2.00407 + 5.44742I	0
b = 0.697979 - 0.497053I		
u = -0.198799 - 1.294160I		
a = -1.40590 + 0.71544I	2.00407 - 5.44742I	0
b = 0.697979 + 0.497053I		
u = 0.178195 + 1.312730I		
a = -0.231596 + 0.088504I	6.87494 + 1.26054I	0
b = -0.190463 + 1.292530I		
u = 0.178195 - 1.312730I		
a = -0.231596 - 0.088504I	6.87494 - 1.26054I	0
b = -0.190463 - 1.292530I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.493813 + 1.233590I		
a = -1.112530 - 0.274480I	7.85689 - 0.20204I	0
b = -0.066058 + 0.814084I		
u = 0.493813 - 1.233590I		
a = -1.112530 + 0.274480I	7.85689 + 0.20204I	0
b = -0.066058 - 0.814084I		
u = 0.829346 + 1.076770I		
a = -1.046620 - 0.031456I	2.89341 - 8.99267I	0
b = 0.849883 + 1.096060I		
u = 0.829346 - 1.076770I		
a = -1.046620 + 0.031456I	2.89341 + 8.99267I	0
b = 0.849883 - 1.096060I		
u = 0.308675 + 1.328600I		
a = 0.884486 - 0.411016I	3.21363 - 3.91201I	0
b = -0.508356 - 0.440787I		
u = 0.308675 - 1.328600I		
a = 0.884486 + 0.411016I	3.21363 + 3.91201I	0
b = -0.508356 + 0.440787I		
u = -1.368980 + 0.132745I		
a = -0.637508 + 0.441709I	2.7675 + 14.4661I	0
b = 0.828747 - 0.970265I		
u = -1.368980 - 0.132745I		
a = -0.637508 - 0.441709I	2.7675 - 14.4661I	0
b = 0.828747 + 0.970265I		
u = 0.523848 + 1.278390I		
a = -0.391147 + 0.071671I	0.19061 - 3.72591I	0
b = 0.842500 + 0.277597I		
u = 0.523848 - 1.278390I		
a = -0.391147 - 0.071671I	0.19061 + 3.72591I	0
b = 0.842500 - 0.277597I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.546828 + 1.272320I		
a = 0.920914 + 0.277614I	9.11955 + 7.05412I	0
b = -0.88050 + 1.42443I		
u = -0.546828 - 1.272320I		
a = 0.920914 - 0.277614I	9.11955 - 7.05412I	0
b = -0.88050 - 1.42443I		
u = -0.601513 + 1.251720I		
a = -0.810433 + 0.338062I	8.95796 + 2.66110I	0
b = -0.028923 - 0.898449I		
u = -0.601513 - 1.251720I		
a = -0.810433 - 0.338062I	8.95796 - 2.66110I	0
b = -0.028923 + 0.898449I		
u = -0.291852 + 0.533192I		
a = -0.476273 - 0.650036I	-1.65296 - 1.42972I	0
b = 0.922349 + 0.546882I		
u = -0.291852 - 0.533192I		
a = -0.476273 + 0.650036I	-1.65296 + 1.42972I	0
b = 0.922349 - 0.546882I		
u = 0.207557 + 1.393540I		
a = -0.811635 + 0.504360I	10.5901 - 11.0088I	0
b = 0.96071 + 1.54827I		
u = 0.207557 - 1.393540I		
a = -0.811635 - 0.504360I	10.5901 + 11.0088I	0
b = 0.96071 - 1.54827I		
u = 0.31823 + 1.38161I		
a = -1.004210 + 0.773245I	3.63117 - 7.44096I	0
b = 0.513770 + 1.087590I		
u = 0.31823 - 1.38161I		
a = -1.004210 - 0.773245I	3.63117 + 7.44096I	0
b = 0.513770 - 1.087590I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.63747 + 1.28820I		
a = -0.800443 + 0.034085I	3.61984 + 8.63450I	0
b = 0.554279 - 0.977003I		
u = -0.63747 - 1.28820I		
a = -0.800443 - 0.034085I	3.61984 - 8.63450I	0
b = 0.554279 + 0.977003I		
u = -0.49310 + 1.35405I		
a = 1.077770 + 0.430069I	8.6174 + 12.6237I	0
b = -0.84465 + 1.35885I		
u = -0.49310 - 1.35405I		
a = 1.077770 - 0.430069I	8.6174 - 12.6237I	0
b = -0.84465 - 1.35885I		
u = -0.425594 + 0.360680I		
a = 1.50501 + 1.75000I	-2.41132 + 5.07426I	0
b = -0.368181 - 0.547478I		
u = -0.425594 - 0.360680I		
a = 1.50501 - 1.75000I	-2.41132 - 5.07426I	0
b = -0.368181 + 0.547478I		
u = 0.54654 + 1.34215I		
a = -0.852298 + 0.457680I	0.67863 - 7.51832I	0
b = 0.82270 + 1.15184I		
u = 0.54654 - 1.34215I		
a = -0.852298 - 0.457680I	0.67863 + 7.51832I	0
b = 0.82270 - 1.15184I		
u = -0.46572 + 1.37486I		
a = 1.088400 + 0.481454I	1.2230 + 14.7692I	0
b = -0.880272 + 1.047570I		
u = -0.46572 - 1.37486I		
a = 1.088400 - 0.481454I	1.2230 - 14.7692I	0
b = -0.880272 - 1.047570I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.48083 + 1.38202I		
a = 1.099830 - 0.557557I	7.35002 - 10.49740I	0
b = -0.66938 - 1.37482I		
u = 0.48083 - 1.38202I		
a = 1.099830 + 0.557557I	7.35002 + 10.49740I	0
b = -0.66938 + 1.37482I		
u = -0.456276 + 0.281124I		
a = 1.13697 + 1.08264I	3.16140 - 1.26598I	0
b = -1.015490 + 0.654376I		
u = -0.456276 - 0.281124I		
a = 1.13697 - 1.08264I	3.16140 + 1.26598I	0
b = -1.015490 - 0.654376I		
u = 0.375285 + 0.360544I		
a = 0.696456 + 1.103150I	1.18959 - 1.61842I	-3.72926 - 3.76453I
b = 0.425266 + 1.257700I		
u = 0.375285 - 0.360544I		
a = 0.696456 - 1.103150I	1.18959 + 1.61842I	-3.72926 + 3.76453I
b = 0.425266 - 1.257700I		
u = -0.35228 + 1.43722I		
a = -0.744852 - 0.439951I	10.64380 + 1.09697I	0
b = 0.89537 - 1.59751I		
u = -0.35228 - 1.43722I		
a = -0.744852 + 0.439951I	10.64380 - 1.09697I	0
b = 0.89537 + 1.59751I		
u = 0.48081 + 1.41610I		
a = 1.028570 - 0.445882I	1.58277 - 7.78025I	0
b = -0.749512 - 0.926552I		
u = 0.48081 - 1.41610I		
a = 1.028570 + 0.445882I	1.58277 + 7.78025I	0
b = -0.749512 + 0.926552I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.34636 + 1.45556I		
a = -0.836641 + 0.539569I	7.24389 - 3.12585I	0
b = 0.034310 + 0.750640I		
u = 0.34636 - 1.45556I		
a = -0.836641 - 0.539569I	7.24389 + 3.12585I	0
b = 0.034310 - 0.750640I		
u = -0.034004 + 0.495683I		
a = 1.44190 - 0.19639I	0.94473 - 1.50150I	2.46856 + 1.66894I
b = 0.017645 + 0.840471I		
u = -0.034004 - 0.495683I		
a = 1.44190 + 0.19639I	0.94473 + 1.50150I	2.46856 - 1.66894I
b = 0.017645 - 0.840471I		
u = 0.55616 + 1.41518I		
a = 0.873077 - 0.519817I	5.94080 - 10.81550I	0
b = -0.77779 - 1.52676I		
u = 0.55616 - 1.41518I		
a = 0.873077 + 0.519817I	5.94080 + 10.81550I	0
b = -0.77779 + 1.52676I		
u = -0.469587 + 0.073136I		
a = -1.47135 - 1.51583I	-0.86854 - 2.10969I	4.42524 + 4.52973I
b = 0.630400 + 0.661731I		
u = -0.469587 - 0.073136I		
a = -1.47135 + 1.51583I	-0.86854 + 2.10969I	4.42524 - 4.52973I
b = 0.630400 - 0.661731I		
u = 1.41738 + 0.57379I		
a = -0.153285 + 0.548614I	0.99806 + 1.41438I	0
b = 0.495754 - 0.741753I		
u = 1.41738 - 0.57379I		
a = -0.153285 - 0.548614I	0.99806 - 1.41438I	0
b = 0.495754 + 0.741753I		
·		·

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.470440		
a = -2.33027	2.03675	6.17570
b = -0.304619		
u = 1.48832 + 0.35775I		
a = -0.560296 - 0.288071I	-0.00701 - 5.30851I	0
b = 0.907569 + 0.868077I		
u = 1.48832 - 0.35775I		
a = -0.560296 + 0.288071I	-0.00701 + 5.30851I	0
b = 0.907569 - 0.868077I		
u = -0.15568 + 1.54470I		
a = -0.226865 + 0.132028I	1.16743 - 4.27487I	0
b = 0.073627 - 0.359822I		
u = -0.15568 - 1.54470I		
a = -0.226865 - 0.132028I	1.16743 + 4.27487I	0
b = 0.073627 + 0.359822I		
u = 0.06398 + 1.55216I		
a = 0.452459 + 1.058360I	8.95580 - 3.93465I	0
b = -0.038747 + 0.717804I		
u = 0.06398 - 1.55216I		
a = 0.452459 - 1.058360I	8.95580 + 3.93465I	0
b = -0.038747 - 0.717804I		
u = -0.91928 + 1.25515I		
a = -0.336206 + 0.261611I	7.35727 - 1.94149I	0
b = -0.318335 - 0.758397I		
u = -0.91928 - 1.25515I		
a = -0.336206 - 0.261611I	7.35727 + 1.94149I	0
b = -0.318335 + 0.758397I		
u = -0.58298 + 1.46379I		
a = -0.984238 - 0.396053I	7.7546 + 21.1463I	0
b = 0.86747 - 1.38624I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.58298 - 1.46379I		
a = -0.984238 + 0.396053I	7.7546 - 21.1463I	0
b = 0.86747 + 1.38624I		
u = -0.02295 + 1.58260I		
a = 0.319312 - 0.749462I	9.91856 - 4.98468I	0
b = -0.028405 - 1.010110I		
u = -0.02295 - 1.58260I		
a = 0.319312 + 0.749462I	9.91856 + 4.98468I	0
b = -0.028405 + 1.010110I		
u = -0.69741 + 1.45166I		
a = 0.700303 - 0.180472I	7.86698 + 11.24480I	0
b = 0.020734 + 0.838960I		
u = -0.69741 - 1.45166I		
a = 0.700303 + 0.180472I	7.86698 - 11.24480I	0
b = 0.020734 - 0.838960I		
u = -0.374189 + 0.055407I		
a = -2.79072 - 2.34512I	-1.91309 - 3.12150I	-20.6911 + 8.9993I
b = 0.457221 + 0.301242I		
u = -0.374189 - 0.055407I		
a = -2.79072 + 2.34512I	-1.91309 + 3.12150I	-20.6911 - 8.9993I
b = 0.457221 - 0.301242I		
u = 0.58065 + 1.54011I		
a = -0.871343 + 0.379238I	5.81411 - 12.32850I	0
b = 0.89516 + 1.39519I		
u = 0.58065 - 1.54011I		
a = -0.871343 - 0.379238I	5.81411 + 12.32850I	0
b = 0.89516 - 1.39519I		
u = -0.150828 + 0.306526I		
a = 0.77410 + 3.02019I	-2.10477 - 4.79766I	-7.52661 + 5.11426I
b = -0.211462 + 1.202300I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.150828 - 0.306526I		
a = 0.77410 - 3.02019I	-2.10477 + 4.79766I	-7.52661 - 5.11426I
b = -0.211462 - 1.202300I		
u = 0.11397 + 1.67332I		
a = 0.273705 - 0.239989I	9.90076 - 4.63397I	0
b = -0.115500 - 0.930195I		
u = 0.11397 - 1.67332I		
a = 0.273705 + 0.239989I	9.90076 + 4.63397I	0
b = -0.115500 + 0.930195I		
u = -0.164721 + 0.264296I		
a = -3.21591 + 1.73671I	4.87250 - 9.94040I	2.63196 + 6.22883I
b = 0.780301 + 1.007680I		
u = -0.164721 - 0.264296I		
a = -3.21591 - 1.73671I	4.87250 + 9.94040I	2.63196 - 6.22883I
b = 0.780301 - 1.007680I		
u = 0.083894 + 0.289067I		
a = 4.37841 + 0.56054I	-0.07891 - 3.88197I	-1.3587 + 14.3171I
b = -0.406232 - 0.423936I		
u = 0.083894 - 0.289067I		
a = 4.37841 - 0.56054I	-0.07891 + 3.88197I	-1.3587 - 14.3171I
b = -0.406232 + 0.423936I		
u = 0.187506 + 0.134908I		
a = -2.74804 - 2.39125I	5.08411 + 2.99986I	2.46902 - 3.35514I
b = -0.771357 + 0.827286I		
u = 0.187506 - 0.134908I		
a = -2.74804 + 2.39125I	5.08411 - 2.99986I	2.46902 + 3.35514I
b = -0.771357 - 0.827286I		
u = 0.53513 + 1.72559I		
a = 0.482560 - 0.101640I	4.79715 - 4.03069I	0
b = -0.023260 - 0.648486I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.53513 - 1.72559I		
a = 0.482560 + 0.101640I	4.79715 + 4.03069I	0
b = -0.023260 + 0.648486I		
u = -0.60557 + 2.39600I		
a = 0.1028890 + 0.0254360I	7.84421 - 5.44128I	0
b = 0.121571 + 0.563880I		
u = -0.60557 - 2.39600I		
a = 0.1028890 - 0.0254360I	7.84421 + 5.44128I	0
b = 0.121571 - 0.563880I		

II.
$$I_2^u = \langle 1.76 \times 10^{53} u^{46} + 1.59 \times 10^{54} u^{45} + \dots + 8.44 \times 10^{52} b + 1.63 \times 10^{54}, \ -2.19 \times 10^{53} u^{46} - 1.94 \times 10^{54} u^{45} + \dots + 1.21 \times 10^{52} a - 1.37 \times 10^{54}, \ u^{47} + 9 u^{46} + \dots + 24 u + 1 \rangle$$

(i) Arc colorings

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

$$a_{5} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{9} = \begin{pmatrix} 18.1898u^{46} + 160.513u^{45} + \dots + 1984.23u + 113.348 \\ -2.08922u^{46} - 18.8209u^{45} + \dots - 336.745u - 19.2881 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 18.1839u^{46} + 160.159u^{45} + \dots + 1927.72u + 110.322 \\ -1.96892u^{46} - 17.5786u^{45} + \dots - 287.436u - 16.5614 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 16.1006u^{46} + 141.692u^{45} + \dots + 1647.48u + 94.0600 \\ -2.08922u^{46} - 18.8209u^{45} + \dots - 336.745u - 19.2881 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 41.8893u^{46} + 371.234u^{45} + \dots + 5127.66u + 300.236 \\ -3.64878u^{46} - 32.4488u^{45} + \dots - 444.712u - 27.1681 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0.728393u^{46} - 213.005u^{45} + \dots - 3249.44u - 202.035 \\ 0.0728393u^{46} + 0.672591u^{45} + \dots - 12.4387u - 0.305149 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -38.5977u^{46} - 343.538u^{45} + \dots - 5027.52u - 299.890 \\ 1.80052u^{46} + 15.7069u^{45} + \dots + 182.144u + 12.4621 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.711628u^{46} + 6.46854u^{45} + \dots + 14.0663u - 6.92274 \\ 0.406479u^{46} + 3.64936u^{45} + \dots + 14.7993u - 1.80765 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 34.5158u^{46} + 305.417u^{45} + \dots + 3895.57u + 221.805 \\ -2.93397u^{46} - 26.3161u^{45} + \dots - 425.667u - 25.6595 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-6.68888u^{46} 59.2167u^{45} + \cdots 890.293u 53.7964$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{47} - 9u^{46} + \dots + 24u - 1$
c_2	$u^{47} + u^{46} + \dots - 2u + 1$
c_3	$u^{47} + 18u^{45} + \dots + 17u - 7$
c_4	$u^{47} + 9u^{46} + \dots + 24u + 1$
<i>C</i> ₅	$u^{47} + 3u^{46} + \dots - 54u + 7$
c_6	$u^{47} + 3u^{46} + \dots + 8u - 7$
c_7	$u^{47} + 2u^{46} + \dots + 225u + 31$
c_8	$7(7u^{47} - 19u^{46} + \dots + u + 3)$
c_9	$7(7u^{47} + 3u^{46} + \dots + 235u + 101)$
c_{10}	$7(7u^{47} - 4u^{46} + \dots - 2u + 1)$
c_{11}	$u^{47} - 2u^{46} + \dots + 225u - 31$
c_{12}	$u^{47} - 2u^{46} + \dots + 8u - 7$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_4	$y^{47} + 45y^{46} + \dots + 54y - 1$
c_2	$y^{47} + 21y^{46} + \dots + 6y - 1$
<i>c</i> ₃	$y^{47} + 36y^{46} + \dots - 957y - 49$
<i>C</i> ₅	$y^{47} - y^{46} + \dots + 18y - 49$
<i>C</i> ₆	$y^{47} + 5y^{46} + \dots + 666y - 49$
c_7, c_{11}	$y^{47} - 36y^{46} + \dots + 7163y - 961$
<i>C</i> ₈	$49(49y^{47} + 1557y^{46} + \dots - 89y - 9)$
<i>c</i> ₉	$49(49y^{47} - 933y^{46} + \dots + 67547y - 10201)$
c_{10}	$49(49y^{47} - 492y^{46} + \dots + 6y - 1)$
c_{12}	$y^{47} + 12y^{46} + \dots + 890y - 49$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.412018 + 0.910241I		
a = 1.42252 - 0.66754I	6.54125 + 1.94652I	0
b = -0.558060 + 0.849328I		
u = -0.412018 - 0.910241I		
a = 1.42252 + 0.66754I	6.54125 - 1.94652I	0
b = -0.558060 - 0.849328I		
u = -1.01812		
a = 0.484375	0.996416	0
b = 0.550396		
u = 0.223770 + 0.933688I		
a = 1.40464 + 0.47122I	6.48800 - 3.47650I	0
b = -0.780531 - 0.672186I		
u = 0.223770 - 0.933688I		
a = 1.40464 - 0.47122I	6.48800 + 3.47650I	0
b = -0.780531 + 0.672186I		
u = -0.705497 + 0.632108I		
a = -0.971516 - 0.328892I	-2.16006 + 2.92152I	0
b = 0.775536 - 0.758515I		
u = -0.705497 - 0.632108I		
a = -0.971516 + 0.328892I	-2.16006 - 2.92152I	0
b = 0.775536 + 0.758515I		
u = -0.989830 + 0.380257I		
a = -0.392650 - 0.734119I	-2.02922 - 1.05222I	0
b = 0.471294 + 0.646379I		
u = -0.989830 - 0.380257I		
a = -0.392650 + 0.734119I	-2.02922 + 1.05222I	0
b = 0.471294 - 0.646379I		
u = 0.135894 + 1.069300I		
a = 0.985232 - 0.461365I	6.87959 - 4.14294I	0
b = -1.01602 - 1.43939I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.135894 - 1.069300I		
a = 0.985232 + 0.461365I	6.87959 + 4.14294I	0
b = -1.01602 + 1.43939I		
u = 0.089327 + 0.898687I		
a = -0.18193 + 1.57892I	-0.92228 - 5.25356I	0
b = -0.093583 + 1.280180I		
u = 0.089327 - 0.898687I		
a = -0.18193 - 1.57892I	-0.92228 + 5.25356I	0
b = -0.093583 - 1.280180I		
u = -0.240473 + 0.863597I		
a = -0.007559 - 0.745241I	1.44973 + 1.40069I	0
b = -0.02111 - 2.30870I		
u = -0.240473 - 0.863597I		
a = -0.007559 + 0.745241I	1.44973 - 1.40069I	0
b = -0.02111 + 2.30870I		
u = 0.520102 + 0.987359I		
a = -0.781632 - 0.361785I	5.23817 - 11.80400I	0
b = 1.161450 + 0.628275I		
u = 0.520102 - 0.987359I		
a = -0.781632 + 0.361785I	5.23817 + 11.80400I	0
b = 1.161450 - 0.628275I		
u = 0.038793 + 1.181960I		
a = -1.18653 + 0.84951I	7.81681 + 2.19589I	0
b = -0.076391 + 0.811011I		
u = 0.038793 - 1.181960I		
a = -1.18653 - 0.84951I	7.81681 - 2.19589I	0
b = -0.076391 - 0.811011I		
u = 0.341055 + 0.741938I		
a = -1.42904 - 0.17709I	0.11203 + 3.05747I	0 3.40124I
b = 0.226596 + 0.299849I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.341055 - 0.741938I		
a = -1.42904 + 0.17709I	0.11203 - 3.05747I	0. + 3.40124I
b = 0.226596 - 0.299849I		
u = -0.553362 + 0.595850I		
a = -0.107835 + 0.839501I	1.22743 + 2.05951I	0 10.30717I
b = -0.53642 + 1.31016I		
u = -0.553362 - 0.595850I		
a = -0.107835 - 0.839501I	1.22743 - 2.05951I	0. + 10.30717I
b = -0.53642 - 1.31016I		
u = 0.182998 + 1.249280I		
a = 1.57896 - 0.36075I	2.44370 - 5.27249I	0
b = -0.524420 - 0.327548I		
u = 0.182998 - 1.249280I		
a = 1.57896 + 0.36075I	2.44370 + 5.27249I	0
b = -0.524420 + 0.327548I		
u = 0.400232 + 1.208590I		
a = -0.302761 + 0.071526I	6.58603 + 2.06901I	0
b = -0.457496 + 0.971975I		
u = 0.400232 - 1.208590I		
a = -0.302761 - 0.071526I	6.58603 - 2.06901I	0
b = -0.457496 - 0.971975I		
u = -0.247457 + 1.285890I		
a = -1.182790 - 0.654090I	2.69980 + 5.44315I	0
b = 0.840149 - 0.785884I		
u = -0.247457 - 1.285890I		
a = -1.182790 + 0.654090I	2.69980 - 5.44315I	0
b = 0.840149 + 0.785884I		
u = -0.455780 + 1.247860I		
a = -1.107690 + 0.040679I	7.87234 + 1.71896I	0
b = -0.031073 - 0.849645I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.455780 - 1.247860I		
a = -1.107690 - 0.040679I	7.87234 - 1.71896I	0
b = -0.031073 + 0.849645I		
u = -1.308270 + 0.356644I		
a = 0.607147 - 0.237038I	1.26678 + 4.91375I	0
b = -0.954653 + 1.032190I		
u = -1.308270 - 0.356644I		
a = 0.607147 + 0.237038I	1.26678 - 4.91375I	0
b = -0.954653 - 1.032190I		
u = -0.55919 + 1.30075I		
a = -0.960228 - 0.331950I	1.17531 + 6.67830I	0
b = 0.726716 - 1.005470I		
u = -0.55919 - 1.30075I		
a = -0.960228 + 0.331950I	1.17531 - 6.67830I	0
b = 0.726716 + 1.005470I		
u = -0.12456 + 1.46073I		
a = 0.249936 + 0.211601I	0.87310 + 4.34938I	0
b = -0.422778 - 0.049882I		
u = -0.12456 - 1.46073I		
a = 0.249936 - 0.211601I	0.87310 - 4.34938I	0
b = -0.422778 + 0.049882I		
u = -0.49504 + 1.42097I		
a = 0.955766 + 0.536199I	6.66035 + 10.78180I	0
b = -0.74785 + 1.44856I		
u = -0.49504 - 1.42097I		
a = 0.955766 - 0.536199I	6.66035 - 10.78180I	0
b = -0.74785 - 1.44856I		
u = -0.07391 + 1.60851I		
a = -0.202619 + 0.885423I	8.82247 + 3.67521I	0
b = 0.076585 + 0.735718I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.07391 - 1.60851I		
a = -0.202619 - 0.885423I	8.82247 - 3.67521I	0
b = 0.076585 - 0.735718I		
u = -0.052718 + 0.214136I		
a = 2.11870 + 4.04015I	0.00214 + 6.06285I	-4.35516 - 7.15209I
b = -0.21971 + 1.54002I		
u = -0.052718 - 0.214136I		
a = 2.11870 - 4.04015I	0.00214 - 6.06285I	-4.35516 + 7.15209I
b = -0.21971 - 1.54002I		
u = -0.1351330 + 0.0076911I		
a = -8.29170 + 3.63261I	-1.59156 + 3.02581I	2.47079 - 1.76793I
b = 0.379756 - 0.525143I		
u = -0.1351330 - 0.0076911I		
a = -8.29170 - 3.63261I	-1.59156 - 3.02581I	2.47079 + 1.76793I
b = 0.379756 + 0.525143I		
u = 0.43014 + 2.32325I		
a = 0.041396 - 0.137872I	7.71685 + 5.48093I	0
b = 0.149665 - 0.533653I		
u = 0.43014 - 2.32325I		
a = 0.041396 + 0.137872I	7.71685 - 5.48093I	0
b = 0.149665 + 0.533653I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{47} - 9u^{46} + \dots + 24u - 1)(u^{183} + 4u^{182} + \dots - 183798u + 52461) $
c_2	$(u^{47} + u^{46} + \dots - 2u + 1)(u^{183} - 2u^{182} + \dots - 318294u - 40021)$
c_3	$(u^{47} + 18u^{45} + \dots + 17u - 7)(u^{183} + u^{182} + \dots + 2518528u - 157696)$
c_4	$(u^{47} + 9u^{46} + \dots + 24u + 1)(u^{183} + 4u^{182} + \dots - 183798u + 52461)$
c_5	$(u^{47} + 3u^{46} + \dots - 54u + 7)(u^{183} + 2u^{182} + \dots - 626724u - 79331)$
c_6	$(u^{47} + 3u^{46} + \dots + 8u - 7)(u^{183} - 2u^{182} + \dots + 1244u + 203)$
c_7	$(u^{47} + 2u^{46} + \dots + 225u + 31)$ $\cdot (u^{183} - 3u^{182} + \dots - 13392267u - 702451)$
c_8	$49(7u^{47} - 19u^{46} + \dots + u + 3)$ $\cdot (7u^{183} - 18u^{182} + \dots + 21249125u + 234650)$
c_9	$49(7u^{47} + 3u^{46} + \dots + 235u + 101)$ $\cdot (7u^{183} - 34u^{182} + \dots + 28034831u - 1352596)$
c_{10}	$49(7u^{47} - 4u^{46} + \dots - 2u + 1)(7u^{183} + u^{182} + \dots + 354748u + 24677)$
c_{11}	$(u^{47} - 2u^{46} + \dots + 225u - 31)$ $\cdot (u^{183} - 3u^{182} + \dots - 13392267u - 702451)$
c ₁₂	$(u^{47} - 2u^{46} + \dots + 8u - 7)(u^{183} - u^{182} + \dots + 9088u - 448)$ 34

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing	
c_1, c_4	$(y^{47} + 45y^{46} + \dots + 54y - 1)$ $\cdot (y^{183} + 142y^{182} + \dots - 132303001266y - 2752156521)$	
c_2	$(y^{47} + 21y^{46} + \dots + 6y - 1)$ $\cdot (y^{183} + 2y^{182} + \dots + 214292514570y - 1601680441)$	
c_3	$(y^{47} + 36y^{46} + \dots - 957y - 49)$ $\cdot (y^{183} + 57y^{182} + \dots - 1746473320448y - 24868028416)$	
c_5	$(y^{47} - y^{46} + \dots + 18y - 49)$ $\cdot (y^{183} - 20y^{182} + \dots + 171767282162y - 6293407561)$	
c_6	$(y^{47} + 5y^{46} + \dots + 666y - 49)$ $\cdot (y^{183} - 6y^{182} + \dots + 3080998y - 41209)$	
c_7, c_{11}	$(y^{47} - 36y^{46} + \dots + 7163y - 961)$ $\cdot (y^{183} - 151y^{182} + \dots + 52196002203823y - 493437407401)$	
c_8	$2401(49y^{47} + 1557y^{46} + \dots - 89y - 9)$ $\cdot (49y^{183} + 3834y^{182} + \dots + 529210869055025y - 55060622500)$	
c_9	$2401(49y^{47} - 933y^{46} + \dots + 67547y - 10201)$ $\cdot (49y^{183} - 2136y^{182} + \dots + 122950525332321y - 1829515939216)$	
c_{10}	$2401(49y^{47} - 492y^{46} + \dots + 6y - 1)$ $\cdot (49y^{183} - 2479y^{182} + \dots + 57523575206y - 608954329)$	
c_{12}	$(y^{47} + 12y^{46} + \dots + 890y - 49)$ $\cdot (y^{183} + 25y^{182} + \dots + 604160y - 200704)$	