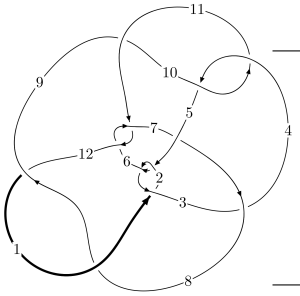
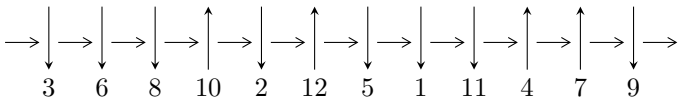
$12a_{0296}$ $(K12a_{0296})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$\underset{c_4}{4,10} \to \underset{c_7}{5,7} \to \underset{c_{10}}{8} \to \underset{c_{11}}{11} \to \underset{c_3}{12} \to \underset{c_6}{3} \to \underset{c_2}{6} \to \underset{c_9}{2} \to \underset{c_{12}}{9} \to 1 \longrightarrow\!\!\!\!\rightarrow c_1, c_5, c_8$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$\begin{aligned} I_1^u = \langle & 5.66805 \times 10^{409} u^{150} + 7.51787 \times 10^{409} u^{149} + \cdots + 5.35159 \times 10^{409} b + 1.77240 \times 10^{412}, \\ & 3.44011 \times 10^{410} u^{150} + 6.49333 \times 10^{411} u^{149} + \cdots + 8.37524 \times 10^{411} a + 1.88098 \times 10^{414}, \\ & u^{151} + u^{150} + \cdots + 342u + 313 \rangle \\ I_2^u = \langle & -258384u^{35} - 345517u^{34} + \cdots + 229205b + 43500, \\ & -1983831u^{35} - 980862u^{34} + \cdots + 229205a + 169836,\ u^{36} + 11u^{34} + \cdots - 2u + 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 187 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle 5.67 \times 10^{409} u^{150} + 7.52 \times 10^{409} u^{149} + \cdots + 5.35 \times 10^{409} b + 1.77 \times 10^{412},\ 3.44 \times 10^{410} u^{150} + 6.49 \times 10^{411} u^{149} + \cdots + 8.38 \times 10^{411} a + 1.88 \times 10^{414},\ u^{151} + u^{150} + \cdots + 342u + 313\rangle}$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.0410748u^{150} - 0.775301u^{149} + \cdots - 172.627u - 224.588 \\ -1.05913u^{150} - 1.40479u^{149} + \cdots - 523.215u - 331.192 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.682596u^{150} + 0.0126601u^{149} + \cdots + 86.6262u - 123.209 \\ -0.600054u^{150} - 1.12759u^{149} + \cdots - 274.719u - 311.069 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 1.15095u^{150} + 2.01915u^{149} + \cdots + 397.900u + 529.928 \\ 1.33205u^{150} + 0.776008u^{149} + \cdots + 461.621u + 106.637 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -1.25934u^{150} - 2.29137u^{149} + \cdots - 702.103u - 832.025 \\ -1.59595u^{150} - 0.488422u^{149} + \cdots - 622.825u - 281.236 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -3.08072u^{150} - 0.428415u^{149} + \cdots - 1135.73u + 47.9606 \\ 0.461189u^{150} + 2.50390u^{149} + \cdots + 125.479u + 745.681 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.685011u^{150} - 2.74856u^{149} + \cdots - 331.641u - 1006.45 \\ -2.28481u^{150} - 1.01482u^{149} + \cdots - 661.078u - 346.871 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^3 \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 1.36356u^{150} + 2.27678u^{149} + \cdots + 499.452u + 599.666 \\ 1.46366u^{150} + 0.729837u^{149} + \cdots + 487.027u + 58.9669 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -2.91848u^{150} + 2.19523u^{149} + \cdots - 604.970u + 711.664$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{151} + 67u^{150} + \cdots + 52840u + 1156$
c_2, c_5	$u^{151} + 3u^{150} + \cdots + 70u + 34$
c_3	$u^{151} + u^{150} + \cdots - 179023038u + 197503417$
c_4, c_{10}	$u^{151} + u^{150} + \cdots + 342u + 313$
c_6, c_{11}	$u^{151} - 2u^{150} + \cdots + 21021u + 2741$
c_7	$u^{151} - 3u^{150} + \cdots - 33752u + 4808$
c_8, c_{12}	$u^{151} - 4u^{150} + \cdots + 20182265u - 3589991$
c_9	$u^{151} + 69u^{150} + \cdots - 1865578u - 97969$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{151} + 53y^{150} + \cdots + 332733400y - 1336336$
c_2, c_5	$y^{151} - 67y^{150} + \cdots + 52840y - 1156$
c_3	$y^{151} + 49y^{150} + \cdots - 1753792917130715680y - 39007599726675889$
c_4, c_{10}	$y^{151} + 69y^{150} + \cdots - 1865578y - 97969$
c_6, c_{11}	$y^{151} + 88y^{150} + \cdots - 10437379y - 7513081$
c_7	$y^{151} + 5y^{150} + \cdots - 2044025440y - 23116864$
c_8, c_{12}	$y^{151} + 112y^{150} + \cdots + 15695522090649y - 12888035380081$
c_9	$y^{151} + 45y^{150} + \cdots + 55326840498y - 9597924961$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.474471 + 0.873042I$ $a = 0.512707 + 0.384642I$ $b = -0.771309 - 0.474519I$	$-0.82739 + 1.93508I$	0
$u = 0.474471 - 0.873042I$ $a = 0.512707 - 0.384642I$ $b = -0.771309 + 0.474519I$	$-0.82739 - 1.93508I$	0
$u = -0.793266 + 0.594543I$ $a = 0.251952 - 0.851259I$ $b = 1.40537 - 0.59930I$	$7.82453 + 1.40406I$	0
$u = -0.793266 - 0.594543I$ $a = 0.251952 + 0.851259I$ $b = 1.40537 + 0.59930I$	$7.82453 - 1.40406I$	0
$u = -0.451572 + 0.903425I$ $a = -0.621995 - 0.489425I$ $b = 1.06047 - 1.11575I$	$-4.24254 - 5.82195I$	0
$u = -0.451572 - 0.903425I$ $a = -0.621995 + 0.489425I$ $b = 1.06047 + 1.11575I$	$-4.24254 + 5.82195I$	0
$u = 0.927233 + 0.342795I$ $a = -0.334731 - 1.190830I$ $b = -0.553144 - 0.137294I$	$6.16809 - 2.14866I$	0
$u = 0.927233 - 0.342795I$ $a = -0.334731 + 1.190830I$ $b = -0.553144 + 0.137294I$	$6.16809 + 2.14866I$	0
$u = 0.737063 + 0.707878I$ $a = -0.610291 - 0.635214I$ $b = -1.312400 - 0.070924I$	$1.72737 + 0.02413I$	0
$u = 0.737063 - 0.707878I$ $a = -0.610291 + 0.635214I$ $b = -1.312400 + 0.070924I$	$1.72737 - 0.02413I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.316666+0.978460I$ $a=-0.191521+0.203636I$ $b=-1.116310+0.715770I$	$-3.26500+0.51006I$	0
$u=-0.316666-0.978460I$ $a=-0.191521-0.203636I$ $b=-1.116310-0.715770I$	$-3.26500-0.51006I$	0
$u=-0.442710+0.864175I$ $a=-1.295650+0.450112I$ $b=0.123810-0.822726I$	$-4.09724+2.16696I$	0
$u=-0.442710-0.864175I$ $a=-1.295650-0.450112I$ $b=0.123810+0.822726I$	$-4.09724-2.16696I$	0
$u=0.508828+0.906414I$ $a=-0.10915+1.66142I$ $b=1.02960+1.70785I$	$-0.49711+2.42487I$	0
$u=0.508828-0.906414I$ $a=-0.10915-1.66142I$ $b=1.02960-1.70785I$	$-0.49711-2.42487I$	0
$u=0.548119+0.785240I$ $a=0.92797+2.12640I$ $b=0.365678+1.130790I$	$3.67115+1.16083I$	0
$u=0.548119-0.785240I$ $a=0.92797-2.12640I$ $b=0.365678-1.130790I$	$3.67115-1.16083I$	0
$u=0.781119+0.549041I$ $a=1.69037+0.84542I$ $b=1.356120-0.381605I$	$-1.19409-6.92765I$	0
$u=0.781119-0.549041I$ $a=1.69037-0.84542I$ $b=1.356120+0.381605I$	$-1.19409+6.92765I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.761065 + 0.569162I$ $a = -0.289601 - 0.949167I$ $b = -1.58043 - 0.59088I$	$6.17789 - 7.03600I$	0
$u = \quad 0.761065 - 0.569162I$ $a = -0.289601 + 0.949167I$ $b = -1.58043 + 0.59088I$	$6.17789 + 7.03600I$	0
$u = -0.571975 + 0.758368I$ $a = -1.28541 + 2.15458I$ $b = -0.826032 + 1.091150I$	$3.38255 + 4.28918I$	0
$u = -0.571975 - 0.758368I$ $a = -1.28541 - 2.15458I$ $b = -0.826032 - 1.091150I$	$3.38255 - 4.28918I$	0
$u = \quad 0.953584 + 0.452558I$ $a = -0.957086 - 0.978019I$ $b = -1.067800 + 0.298408I$	$5.61640 - 7.63906I$	0
$u = \quad 0.953584 - 0.452558I$ $a = -0.957086 + 0.978019I$ $b = -1.067800 - 0.298408I$	$5.61640 + 7.63906I$	0
$u = -0.951985 + 0.463196I$ $a = \quad 1.07721 - 0.92464I$ $b = \quad 1.169770 + 0.411050I$	$3.6440 + 13.6826I$	0
$u = -0.951985 - 0.463196I$ $a = \quad 1.07721 + 0.92464I$ $b = \quad 1.169770 - 0.411050I$	$3.6440 - 13.6826I$	0
$u = \quad 0.551144 + 0.909541I$ $a = -1.45083 - 0.15962I$ $b = -2.44526 - 0.45996I$	$3.26755 + 3.25793I$	0
$u = \quad 0.551144 - 0.909541I$ $a = -1.45083 + 0.15962I$ $b = -2.44526 + 0.45996I$	$3.26755 - 3.25793I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.412814+0.980119I$ $a=\ 0.653326-1.178330I$ $b=\ 0.432077-0.717779I$	$-3.62042-2.96152I$	0
$u=-0.412814-0.980119I$ $a=\ 0.653326+1.178330I$ $b=\ 0.432077+0.717779I$	$-3.62042+2.96152I$	0
$u=\ 0.831039+0.420934I$ $a=\ 1.153850+0.607253I$ $b=\ 0.829307-0.438555I$	$-3.67787-0.37702I$	0
$u=\ 0.831039-0.420934I$ $a=\ 1.153850-0.607253I$ $b=\ 0.829307+0.438555I$	$-3.67787+0.37702I$	0
$u=\ 0.402512+0.838213I$ $a=\ 0.85062+2.08316I$ $b=\ 1.55326+2.26765I$	$2.26665+1.02679I$	0
$u=\ 0.402512-0.838213I$ $a=\ 0.85062-2.08316I$ $b=\ 1.55326-2.26765I$	$2.26665-1.02679I$	0
$u=\ 0.458187+0.807509I$ $a=-0.967115-0.624888I$ $b=-0.775263+0.177040I$	$-0.10234+1.58460I$	0
$u=\ 0.458187-0.807509I$ $a=-0.967115+0.624888I$ $b=-0.775263-0.177040I$	$-0.10234-1.58460I$	0
$u=-0.384329+0.838899I$ $a=-1.39369+1.82790I$ $b=-2.05745+2.10913I$	$1.59989+4.49351I$	0
$u=-0.384329-0.838899I$ $a=-1.39369-1.82790I$ $b=-2.05745-2.10913I$	$1.59989-4.49351I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.566433+0.922762I$ $a=\ \ 1.62558-0.65144I$ $b=\ \ 2.62581-0.85823I$	$2.86219-8.83845I$	0
$u=-0.566433-0.922762I$ $a=\ \ 1.62558+0.65144I$ $b=\ \ 2.62581+0.85823I$	$2.86219+8.83845I$	0
$u=-0.544668+0.937082I$ $a=\ \ 0.33045+1.82215I$ $b=-1.08632+1.82631I$	$-3.25683-6.59898I$	0
$u=-0.544668-0.937082I$ $a=\ \ 0.33045-1.82215I$ $b=-1.08632-1.82631I$	$-3.25683+6.59898I$	0
$u=-0.132446+0.902974I$ $a=\ \ 0.296562-0.717533I$ $b=\ \ 0.1049760+0.0824951I$	$-1.63554+1.89252I$	0
$u=-0.132446-0.902974I$ $a=\ \ 0.296562+0.717533I$ $b=\ \ 0.1049760-0.0824951I$	$-1.63554-1.89252I$	0
$u=\ \ 0.048921+1.087830I$ $a=-0.119600-0.697417I$ $b=\ \ 1.100040-0.368295I$	$-6.66386-5.59825I$	0
$u=\ \ 0.048921-1.087830I$ $a=-0.119600+0.697417I$ $b=\ \ 1.100040+0.368295I$	$-6.66386+5.59825I$	0
$u=-0.140258+1.087210I$ $a=-0.038523-0.522724I$ $b=-1.089290-0.170182I$	$-4.45497+0.69112I$	0
$u=-0.140258-1.087210I$ $a=-0.038523+0.522724I$ $b=-1.089290+0.170182I$	$-4.45497-0.69112I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.464927+0.994656I$ $a=\ \ 0.414265+1.179120I$ $b=-0.78846+1.57115I$	$-3.76961+0.60957I$	0
$u=-0.464927-0.994656I$ $a=\ \ 0.414265-1.179120I$ $b=-0.78846-1.57115I$	$-3.76961-0.60957I$	0
$u=-0.855550+0.282549I$ $a=\ \ 0.010641-1.344350I$ $b=\ \ 0.302029-0.352092I$	$4.70492-4.13948I$	0
$u=-0.855550-0.282549I$ $a=\ \ 0.010641+1.344350I$ $b=\ \ 0.302029+0.352092I$	$4.70492+4.13948I$	0
$u=-1.009090+0.452748I$ $a=\ \ 0.704419-0.716320I$ $b=\ \ 0.695608+0.427520I$	$-1.37475+4.86053I$	0
$u=-1.009090-0.452748I$ $a=\ \ 0.704419+0.716320I$ $b=\ \ 0.695608-0.427520I$	$-1.37475-4.86053I$	0
$u=\ \ 0.541010+0.967238I$ $a=-1.31671-1.02937I$ $b=-1.45108-0.36757I$	$1.30964+2.64836I$	0
$u=\ \ 0.541010-0.967238I$ $a=-1.31671+1.02937I$ $b=-1.45108+0.36757I$	$1.30964-2.64836I$	0
$u=-0.705283+0.540449I$ $a=-1.53800+1.15103I$ $b=-1.259660-0.094042I$	$0.26107+2.23697I$	0
$u=-0.705283-0.540449I$ $a=-1.53800-1.15103I$ $b=-1.259660+0.094042I$	$0.26107-2.23697I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.051334 + 0.879866I$ $a = 1.51050 + 1.61183I$ $b = 1.199650 + 0.493145I$	$1.03386 - 6.56772I$	0
$u = 0.051334 - 0.879866I$ $a = 1.51050 - 1.61183I$ $b = 1.199650 - 0.493145I$	$1.03386 + 6.56772I$	0
$u = 0.745115 + 0.841343I$ $a = -0.50967 + 1.49279I$ $b = 0.22601 + 1.53204I$	$4.33844 + 0.03761I$	0
$u = 0.745115 - 0.841343I$ $a = -0.50967 - 1.49279I$ $b = 0.22601 - 1.53204I$	$4.33844 - 0.03761I$	0
$u = -0.584720 + 0.647508I$ $a = 1.215620 - 0.312693I$ $b = 0.738515 + 0.912718I$	$-2.45409 + 2.12119I$	0
$u = -0.584720 - 0.647508I$ $a = 1.215620 + 0.312693I$ $b = 0.738515 - 0.912718I$	$-2.45409 - 2.12119I$	0
$u = -0.296135 + 1.090290I$ $a = 0.774456 - 0.407724I$ $b = -0.031499 + 0.435412I$	$-2.54988 - 2.02656I$	0
$u = -0.296135 - 1.090290I$ $a = 0.774456 + 0.407724I$ $b = -0.031499 - 0.435412I$	$-2.54988 + 2.02656I$	0
$u = 0.468149 + 1.029350I$ $a = -0.27702 - 1.53152I$ $b = -1.67840 - 1.39047I$	$-3.15209 + 4.37410I$	0
$u = 0.468149 - 1.029350I$ $a = -0.27702 + 1.53152I$ $b = -1.67840 + 1.39047I$	$-3.15209 - 4.37410I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.386899 + 1.077930I$ $a = -0.809350 + 0.434803I$ $b = 0.298507 + 1.117330I$	$-3.58088 + 2.37182I$	0
$u = 0.386899 - 1.077930I$ $a = -0.809350 - 0.434803I$ $b = 0.298507 - 1.117330I$	$-3.58088 - 2.37182I$	0
$u = -0.928204 + 0.675924I$ $a = -0.012265 - 0.446483I$ $b = 0.717089 - 0.590293I$	$6.96765 - 2.40079I$	0
$u = -0.928204 - 0.675924I$ $a = -0.012265 + 0.446483I$ $b = 0.717089 + 0.590293I$	$6.96765 + 2.40079I$	0
$u = -0.528979 + 1.025560I$ $a = 1.32538 - 1.25511I$ $b = 1.62615 - 0.72192I$	$0.57294 - 7.71347I$	0
$u = -0.528979 - 1.025560I$ $a = 1.32538 + 1.25511I$ $b = 1.62615 + 0.72192I$	$0.57294 + 7.71347I$	0
$u = -0.775368 + 0.857355I$ $a = 0.85589 + 1.35151I$ $b = 0.20072 + 1.59593I$	$4.69840 - 4.53340I$	0
$u = -0.775368 - 0.857355I$ $a = 0.85589 - 1.35151I$ $b = 0.20072 - 1.59593I$	$4.69840 + 4.53340I$	0
$u = 0.325310 + 1.109990I$ $a = -0.973193 - 0.167198I$ $b = -0.020866 + 0.696139I$	$-2.90231 - 2.15076I$	0
$u = 0.325310 - 1.109990I$ $a = -0.973193 + 0.167198I$ $b = -0.020866 - 0.696139I$	$-2.90231 + 2.15076I$	0

	Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=$	$0.646470+0.972678I$		
$a=$	$0.58034+1.48762I$	$0.89294+5.25681I$	0
$b=$	$1.22462+0.71265I$		
$u=$	$0.646470-0.972678I$		
$a=$	$0.58034-1.48762I$	$0.89294-5.25681I$	0
$b=$	$1.22462-0.71265I$		
$u=$	$0.760011+0.890975I$		
$a=$	$-1.35356+0.43862I$	$4.20823+5.66146I$	0
$b=$	$-1.13150+1.02720I$		
$u=$	$0.760011-0.890975I$		
$a=$	$-1.35356-0.43862I$	$4.20823-5.66146I$	0
$b=$	$-1.13150-1.02720I$		
$u=$	$-0.556115+1.039740I$		
$a=$	$0.73428-1.53215I$	$-1.54558-6.69820I$	0
$b=$	$1.80185-1.49525I$		
$u=$	$-0.556115-1.039740I$		
$a=$	$0.73428+1.53215I$	$-1.54558+6.69820I$	0
$b=$	$1.80185+1.49525I$		
$u=$	$-0.778236+0.887472I$		
$a=$	$1.31208+0.83308I$	$4.61518-1.30915I$	0
$b=$	$0.90434+1.35260I$		
$u=$	$-0.778236-0.887472I$		
$a=$	$1.31208-0.83308I$	$4.61518+1.30915I$	0
$b=$	$0.90434-1.35260I$		
$u=$	$0.296578+0.763696I$		
$a=$	$1.55547+1.60460I$	$-1.82920-1.04776I$	0
$b=$	$0.913791+0.108180I$		
$u=$	$0.296578-0.763696I$		
$a=$	$1.55547-1.60460I$	$-1.82920+1.04776I$	0
$b=$	$0.913791-0.108180I$		

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.431127+1.100710I$ $a=\ \ 1.33543-0.85526I$ $b=\ \ 1.63607-0.86363I$	$0.68491-7.54241I$	0
$u=-0.431127-1.100710I$ $a=\ \ 1.33543+0.85526I$ $b=\ \ 1.63607+0.86363I$	$0.68491+7.54241I$	0
$u=\ \ 0.063084+0.808782I$ $a=-1.59362+1.56116I$ $b=-1.118110+0.724853I$	$2.05138+1.42523I$	0
$u=\ \ 0.063084-0.808782I$ $a=-1.59362-1.56116I$ $b=-1.118110-0.724853I$	$2.05138-1.42523I$	0
$u=\ \ 1.012030+0.632806I$ $a=\ \ 0.263018-0.371350I$ $b=-0.429591-0.761199I$	$4.56359+8.17825I$	0
$u=\ \ 1.012030-0.632806I$ $a=\ \ 0.263018+0.371350I$ $b=-0.429591+0.761199I$	$4.56359-8.17825I$	0
$u=\ \ 0.492653+1.092460I$ $a=-0.55359-1.92281I$ $b=-1.80725-1.50696I$	$-1.83873+9.56208I$	0
$u=\ \ 0.492653-1.092460I$ $a=-0.55359+1.92281I$ $b=-1.80725+1.50696I$	$-1.83873-9.56208I$	0
$u=-0.516744+1.091770I$ $a=\ \ 0.76071-1.84542I$ $b=\ \ 1.85800-1.42345I$	$-1.13845-5.26178I$	0
$u=-0.516744-1.091770I$ $a=\ \ 0.76071+1.84542I$ $b=\ \ 1.85800+1.42345I$	$-1.13845+5.26178I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.639338 + 1.041040I$ $a = 1.18451 + 1.31208I$ $b = 1.53270 + 0.19262I$	$4.75823 + 12.35290I$	0
$u = 0.639338 - 1.041040I$ $a = 1.18451 - 1.31208I$ $b = 1.53270 - 0.19262I$	$4.75823 - 12.35290I$	0
$u = -0.626222 + 1.052010I$ $a = 0.64241 - 1.82064I$ $b = 1.66123 - 1.91892I$	$-1.25526 - 7.39642I$	0
$u = -0.626222 - 1.052010I$ $a = 0.64241 + 1.82064I$ $b = 1.66123 + 1.91892I$	$-1.25526 + 7.39642I$	0
$u = -0.661607 + 1.035990I$ $a = -1.04546 + 1.14662I$ $b = -1.337950 + 0.157150I$	$6.48776 - 6.88133I$	0
$u = -0.661607 - 1.035990I$ $a = -1.04546 - 1.14662I$ $b = -1.337950 - 0.157150I$	$6.48776 + 6.88133I$	0
$u = -0.586759 + 0.484276I$ $a = -1.22401 + 1.43594I$ $b = -1.018950 + 0.062747I$	$0.05947 + 2.10566I$	0
$u = -0.586759 - 0.484276I$ $a = -1.22401 - 1.43594I$ $b = -1.018950 - 0.062747I$	$0.05947 - 2.10566I$	0
$u = 0.111647 + 1.234800I$ $a = -0.130699 - 0.270610I$ $b = 0.886147 - 0.189061I$	$-9.23438 + 2.25066I$	0
$u = 0.111647 - 1.234800I$ $a = -0.130699 + 0.270610I$ $b = 0.886147 + 0.189061I$	$-9.23438 - 2.25066I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.569143 + 0.502959I$ $a = 0.11282 + 1.42991I$ $b = 0.851864 + 0.957838I$	$2.58773 + 1.73135I$	0
$u = 0.569143 - 0.502959I$ $a = 0.11282 - 1.42991I$ $b = 0.851864 - 0.957838I$	$2.58773 - 1.73135I$	0
$u = 0.653521 + 1.062710I$ $a = -0.46809 - 1.97020I$ $b = -1.50458 - 2.12568I$	$-2.73128 + 12.36150I$	0
$u = 0.653521 - 1.062710I$ $a = -0.46809 + 1.97020I$ $b = -1.50458 + 2.12568I$	$-2.73128 - 12.36150I$	0
$u = -0.618743 + 0.426002I$ $a = -0.37059 + 1.37733I$ $b = -1.073210 + 0.665006I$	$2.31255 + 3.21226I$	0
$u = -0.618743 - 0.426002I$ $a = -0.37059 - 1.37733I$ $b = -1.073210 - 0.665006I$	$2.31255 - 3.21226I$	0
$u = 0.371040 + 1.208050I$ $a = -0.952201 - 0.292784I$ $b = -1.35102 - 0.51279I$	$1.20659 + 1.56713I$	0
$u = 0.371040 - 1.208050I$ $a = -0.952201 + 0.292784I$ $b = -1.35102 + 0.51279I$	$1.20659 - 1.56713I$	0
$u = -0.764599 + 1.007190I$ $a = -0.438580 + 0.583610I$ $b = -0.503982 + 0.067186I$	$5.95422 - 3.76916I$	0
$u = -0.764599 - 1.007190I$ $a = -0.438580 - 0.583610I$ $b = -0.503982 - 0.067186I$	$5.95422 + 3.76916I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.628353 + 1.119320I$ $a = -0.28989 - 1.52139I$ $b = -1.16322 - 1.70832I$	$-5.75637 + 5.81934I$	0
$u = 0.628353 - 1.119320I$ $a = -0.28989 + 1.52139I$ $b = -1.16322 + 1.70832I$	$-5.75637 - 5.81934I$	0
$u = -0.588374 + 0.357615I$ $a = 1.137030 - 0.352905I$ $b = 0.147481 + 1.082150I$	$-1.97680 - 4.61514I$	$-4.00000 + 6.35336I$
$u = -0.588374 - 0.357615I$ $a = 1.137030 + 0.352905I$ $b = 0.147481 - 1.082150I$	$-1.97680 + 4.61514I$	$-4.00000 - 6.35336I$
$u = -0.018154 + 1.328590I$ $a = -0.117418 + 0.353788I$ $b = 0.783836 - 0.004095I$	$-3.03686 + 10.80110I$	0
$u = -0.018154 - 1.328590I$ $a = -0.117418 - 0.353788I$ $b = 0.783836 + 0.004095I$	$-3.03686 - 10.80110I$	0
$u = -0.625854 + 0.229578I$ $a = -0.47385 + 1.36844I$ $b = -1.195450 - 0.289604I$	$1.19416 + 0.85443I$	0
$u = -0.625854 - 0.229578I$ $a = -0.47385 - 1.36844I$ $b = -1.195450 + 0.289604I$	$1.19416 - 0.85443I$	0
$u = -0.680374 + 1.149170I$ $a = -0.61432 + 1.65134I$ $b = -1.75577 + 1.68669I$	$1.5363 - 19.6385I$	0
$u = -0.680374 - 1.149170I$ $a = -0.61432 - 1.65134I$ $b = -1.75577 - 1.68669I$	$1.5363 + 19.6385I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.678767 + 1.152150I$ $a = 0.66746 + 1.50934I$ $b = 1.75972 + 1.54970I$	$3.47276 + 13.58970I$	0
$u = 0.678767 - 1.152150I$ $a = 0.66746 - 1.50934I$ $b = 1.75972 - 1.54970I$	$3.47276 - 13.58970I$	0
$u = -0.693753 + 1.159710I$ $a = -0.370937 + 1.254930I$ $b = -1.42287 + 1.42105I$	$-3.55570 - 10.98920I$	0
$u = -0.693753 - 1.159710I$ $a = -0.370937 - 1.254930I$ $b = -1.42287 - 1.42105I$	$-3.55570 + 10.98920I$	0
$u = 0.040414 + 1.355810I$ $a = -0.047417 + 0.309496I$ $b = -0.841750 - 0.023731I$	$-1.01958 - 4.59032I$	0
$u = 0.040414 - 1.355810I$ $a = -0.047417 - 0.309496I$ $b = -0.841750 + 0.023731I$	$-1.01958 + 4.59032I$	0
$u = 0.627417 + 0.141434I$ $a = 0.228538 + 1.261240I$ $b = 1.108220 - 0.577832I$	$0.68585 - 5.36172I$	$-2.64883 + 5.99730I$
$u = 0.627417 - 0.141434I$ $a = 0.228538 - 1.261240I$ $b = 1.108220 + 0.577832I$	$0.68585 + 5.36172I$	$-2.64883 - 5.99730I$
$u = 0.658345 + 1.192310I$ $a = 0.730811 + 0.819351I$ $b = 1.61609 + 0.90967I$	$3.62177 + 7.96268I$	0
$u = 0.658345 - 1.192310I$ $a = 0.730811 - 0.819351I$ $b = 1.61609 - 0.90967I$	$3.62177 - 7.96268I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.614117+1.233780I$ $a=-0.713863+0.414485I$ $b=-1.49594+0.51693I$	$1.85327-1.35254I$	0
$u=-0.614117-1.233780I$ $a=-0.713863-0.414485I$ $b=-1.49594-0.51693I$	$1.85327+1.35254I$	0
$u=\ 0.884501+1.099460I$ $a=\ 0.342347+0.007126I$ $b=\ 0.068941-0.422441I$	$3.20160-1.40503I$	0
$u=\ 0.884501-1.099460I$ $a=\ 0.342347-0.007126I$ $b=\ 0.068941+0.422441I$	$3.20160+1.40503I$	0
$u=\ 0.308745+0.490388I$ $a=-1.229980+0.363683I$ $b=-0.201002+0.699270I$	$0.036983+1.255920I$	$-0.02182-5.53314I$
$u=\ 0.308745-0.490388I$ $a=-1.229980-0.363683I$ $b=-0.201002-0.699270I$	$0.036983-1.255920I$	$-0.02182+5.53314I$
$u=\ 0.504989+0.118537I$ $a=-0.98059-1.07480I$ $b=\ 0.347166+0.828660I$	$-0.849193+1.116530I$	$-2.55366+1.85405I$
$u=\ 0.504989-0.118537I$ $a=-0.98059+1.07480I$ $b=\ 0.347166-0.828660I$	$-0.849193-1.116530I$	$-2.55366-1.85405I$
$u=-0.413870$ $a=-0.843592$ $b=-0.505841$	-1.38935	-6.69980
$u=-0.12305+1.64503I$ $a=\ 0.176523+0.010629I$ $b=\ 0.753377-0.147043I$	$-8.80325+0.76190I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.12305-1.64503I$		
$a=\quad 0.176523-0.010629I$	$-8.80325-0.76190I$	0
$b=\quad 0.753377+0.147043I$		

II.

$\boldsymbol{I_2^u = \langle -2.58\times 10^5 u^{35} - 3.46\times 10^5 u^{34} + \cdots + 2.29\times 10^5 b + 4.35\times 10^4,\ -1.98\times 10^6 u^{35} - 9.81\times 10^5 u^{34} + \cdots + 2.29\times 10^5 a + 1.70\times 10^5,\ u^{36} + 11u^{34} + \cdots - 2u + 1\rangle}$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_5 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 8.65527u^{35} + 4.27941u^{34} + \cdots + 10.5422u - 0.740979 \\ 1.12731u^{35} + 1.50746u^{34} + \cdots + 0.681896u - 0.189786 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 10.3529u^{35} + 4.46920u^{34} + \cdots + 9.95675u + 3.72822 \\ u^{33} + 10u^{31} + \cdots - 2u^2 + 2u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -11.3529u^{35} - 4.46920u^{34} + \cdots + 5.04325u - 5.72822 \\ -5.69768u^{35} - 0.189786u^{34} + \cdots - 3.41455u - 4.46920 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -6.92471u^{35} + 4.03541u^{34} + \cdots - 49.0306u + 19.5538 \\ -3u^{34} - 28u^{32} + \cdots - 4u + 2 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 4.29704u^{35} + 9.70978u^{34} + \cdots - 18.6028u + 4.22633 \\ 7.97950u^{35} + 3.97053u^{34} + \cdots - 10.8552u + 7.42282 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 7.92895u^{35} + 1.84951u^{34} + \cdots - 21.1825u + 18.2083 \\ 6.10546u^{35} - 3.32773u^{34} + \cdots + 12.0283u - 1.63774 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} u^3 \\ u^3 + u \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -10.4334u^{35} - 3.55197u^{34} + \cdots + 4.79188u - 6.21320 \\ -3.55681u^{35} + 1.21242u^{34} + \cdots - 3.68186u - 2.18223 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= \frac{517923}{45841}u^{35} - \frac{1069968}{229205}u^{34} + \cdots + \frac{14024567}{229205}u - \frac{10697188}{229205}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{36} - 22u^{35} + \cdots - 65u + 4$
c_2	$u^{36} + 2u^{35} + \cdots + u + 2$
c_3	$u^{36} + 3u^{34} + \cdots - 2u + 1$
c_4	$u^{36} + 11u^{34} + \cdots - 2u + 1$
c_5	$u^{36} - 2u^{35} + \cdots - u + 2$
c_6	$u^{36} - u^{35} + \cdots + 3u + 1$
c_7	$u^{36} + 6u^{35} + \cdots - 4u + 1$
c_8	$u^{36} - 3u^{35} + \cdots + u + 1$
c_9	$u^{36} - 22u^{35} + \cdots - 20u + 1$
c_{10}	$u^{36} + 11u^{34} + \cdots + 2u + 1$
c_{11}	$u^{36} + u^{35} + \cdots - 3u + 1$
c_{12}	$u^{36} + 3u^{35} + \cdots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{36} + 2y^{35} + \cdots + 47y + 16$
c_2, c_5	$y^{36} - 22y^{35} + \cdots - 65y + 4$
c_3	$y^{36} + 6y^{35} + \cdots + 22y + 1$
c_4, c_{10}	$y^{36} + 22y^{35} + \cdots + 20y + 1$
c_6, c_{11}	$y^{36} + 29y^{35} + \cdots + 33y + 1$
c_7	$y^{36} - 2y^{35} + \cdots - 32y + 1$
c_8, c_{12}	$y^{36} + 33y^{35} + \cdots + 29y + 1$
c_9	$y^{36} + 2y^{35} + \cdots + 40y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.357797+0.955513I$ $a=1.289100+0.087295I$ $b=-0.105926+1.136940I$	$-4.94479+2.22932I$	$-14.9019-2.6399I$
$u=-0.357797-0.955513I$ $a=1.289100-0.087295I$ $b=-0.105926-1.136940I$	$-4.94479-2.22932I$	$-14.9019+2.6399I$
$u=0.188381+0.952058I$ $a=-0.577972+0.724453I$ $b=0.700843+0.974985I$	$-2.03573+0.72975I$	$-6.02806-0.31753I$
$u=0.188381-0.952058I$ $a=-0.577972-0.724453I$ $b=0.700843-0.974985I$	$-2.03573-0.72975I$	$-6.02806+0.31753I$
$u=0.767826+0.730286I$ $a=-1.235970+0.014515I$ $b=-0.721873+0.277072I$	$3.93271+6.87021I$	$-2.79527-7.40077I$
$u=0.767826-0.730286I$ $a=-1.235970-0.014515I$ $b=-0.721873-0.277072I$	$3.93271-6.87021I$	$-2.79527+7.40077I$
$u=-0.295149+0.862951I$ $a=1.065500+0.914877I$ $b=-0.75742+1.25923I$	$-4.50771-4.97619I$	$-9.84969+1.70961I$
$u=-0.295149-0.862951I$ $a=1.065500-0.914877I$ $b=-0.75742-1.25923I$	$-4.50771+4.97619I$	$-9.84969-1.70961I$
$u=0.377195+1.036490I$ $a=-0.631468-0.298796I$ $b=0.218315+0.567981I$	$-3.19509+0.95374I$	$-9.53510+0.09168I$
$u=0.377195-1.036490I$ $a=-0.631468+0.298796I$ $b=0.218315-0.567981I$	$-3.19509-0.95374I$	$-9.53510-0.09168I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.749055+0.817100I$ $a=\ \ 1.35938+0.64125I$ $b=\ \ 0.930567+0.890428I$	$5.02393-1.94253I$	$2.06414+5.24353I$
$u=-0.749055-0.817100I$ $a=\ \ 1.35938-0.64125I$ $b=\ \ 0.930567-0.890428I$	$5.02393+1.94253I$	$2.06414-5.24353I$
$u=-0.715639+0.497019I$ $a=-0.922146+0.898279I$ $b=-0.757220-0.546128I$	$-1.58054+3.16047I$	$-4.02940-3.51911I$
$u=-0.715639-0.497019I$ $a=-0.922146-0.898279I$ $b=-0.757220+0.546128I$	$-1.58054-3.16047I$	$-4.02940+3.51911I$
$u=\ \ 0.524426+1.037100I$ $a=-0.72236-1.90207I$ $b=-1.83753-1.57526I$	$-2.22265+5.46540I$	$-9.49464-6.03250I$
$u=\ \ 0.524426-1.037100I$ $a=-0.72236+1.90207I$ $b=-1.83753+1.57526I$	$-2.22265-5.46540I$	$-9.49464+6.03250I$
$u=\ \ 0.440097+1.083420I$ $a=-1.52366-0.97777I$ $b=-2.31961-0.85247I$	$0.54233+8.54078I$	$-5.21907-11.55552I$
$u=\ \ 0.440097-1.083420I$ $a=-1.52366+0.97777I$ $b=-2.31961+0.85247I$	$0.54233-8.54078I$	$-5.21907+11.55552I$
$u=-0.575344+1.045980I$ $a=\ \ 0.21266-1.64483I$ $b=\ \ 1.50297-1.58524I$	$-3.19361-8.08332I$	$-7.68802+9.09365I$
$u=-0.575344-1.045980I$ $a=\ \ 0.21266+1.64483I$ $b=\ \ 1.50297+1.58524I$	$-3.19361+8.08332I$	$-7.68802-9.09365I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.754254+0.927529I$ $a=\ 0.530498+1.125890I$ $b=\ 0.16434+1.42491I$	$4.68873-3.76190I$	$-2.59546-0.35238I$
$u=-0.754254-0.927529I$ $a=\ 0.530498-1.125890I$ $b=\ 0.16434-1.42491I$	$4.68873+3.76190I$	$-2.59546+0.35238I$
$u=-0.378109+1.150000I$ $a=\ 1.189800-0.265551I$ $b=\ 1.96649-0.23854I$	$0.72838-2.69545I$	$-5.40072+5.24485I$
$u=-0.378109-1.150000I$ $a=\ 1.189800+0.265551I$ $b=\ 1.96649+0.23854I$	$0.72838+2.69545I$	$-5.40072-5.24485I$
$u=\ 0.494501+0.571527I$ $a=\ 1.55897+1.44851I$ $b=\ 1.42526-0.01899I$	$-0.728857-1.198740I$	$-5.19155+0.06419I$
$u=\ 0.494501-0.571527I$ $a=\ 1.55897-1.44851I$ $b=\ 1.42526+0.01899I$	$-0.728857+1.198740I$	$-5.19155-0.06419I$
$u=\ 0.343882+0.665491I$ $a=\ 1.94755+2.49158I$ $b=\ 1.53935+1.56425I$	$2.13814-5.17372I$	$-1.23012+7.50734I$
$u=\ 0.343882-0.665491I$ $a=\ 1.94755-2.49158I$ $b=\ 1.53935-1.56425I$	$2.13814+5.17372I$	$-1.23012-7.50734I$
$u=-0.284559+0.681609I$ $a=-1.47972+2.66804I$ $b=-0.87260+1.83658I$	$2.54065-0.13483I$	$-2.09330-1.87168I$
$u=-0.284559-0.681609I$ $a=-1.47972-2.66804I$ $b=-0.87260-1.83658I$	$2.54065+0.13483I$	$-2.09330+1.87168I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ 0.813586 + 1.057500I$ $a = -0.066034 + 0.598520I$ $b = \ 0.307723 + 0.943390I$	$2.96304 - 0.90948I$	$-4.00000 - 2.78303I$
$u = \ 0.813586 - 1.057500I$ $a = -0.066034 - 0.598520I$ $b = \ 0.307723 - 0.943390I$	$2.96304 + 0.90948I$	$-4.00000 + 2.78303I$
$u = \ 0.246172 + 0.390549I$ $a = -1.83342 + 0.24063I$ $b = \ 0.375039 + 0.277366I$	$-1.15261 + 1.97520I$	$-5.58454 - 6.81897I$
$u = \ 0.246172 - 0.390549I$ $a = -1.83342 - 0.24063I$ $b = \ 0.375039 - 0.277366I$	$-1.15261 - 1.97520I$	$-5.58454 + 6.81897I$
$u = -0.08616 + 1.61968I$ $a = -0.160698 + 0.102938I$ $b = -0.758714 + 0.229612I$	$-8.86594 + 0.61950I$	0
$u = -0.08616 - 1.61968I$ $a = -0.160698 - 0.102938I$ $b = -0.758714 - 0.229612I$	$-8.86594 - 0.61950I$	0

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{36}-22u^{35}+\cdots-65u+4)(u^{151}+67u^{150}+\cdots+52840u+1156)$
c_2	$(u^{36}+2u^{35}+\cdots+u+2)(u^{151}+3u^{150}+\cdots+70u+34)$
c_3	$(u^{36}+3u^{34}+\cdots-2u+1)$ $\cdot(u^{151}+u^{150}+\cdots-179023038u+197503417)$
c_4	$(u^{36}+11u^{34}+\cdots-2u+1)(u^{151}+u^{150}+\cdots+342u+313)$
c_5	$(u^{36}-2u^{35}+\cdots-u+2)(u^{151}+3u^{150}+\cdots+70u+34)$
c_6	$(u^{36}-u^{35}+\cdots+3u+1)(u^{151}-2u^{150}+\cdots+21021u+2741)$
c_7	$(u^{36}+6u^{35}+\cdots-4u+1)(u^{151}-3u^{150}+\cdots-33752u+4808)$
c_8	$(u^{36}-3u^{35}+\cdots+u+1)(u^{151}-4u^{150}+\cdots+2.01823\times10^{7}u-3589991)$
c_9	$(u^{36}-22u^{35}+\cdots-20u+1)$ $\cdot(u^{151}+69u^{150}+\cdots-1865578u-97969)$
c_{10}	$(u^{36}+11u^{34}+\cdots+2u+1)(u^{151}+u^{150}+\cdots+342u+313)$
c_{11}	$(u^{36}+u^{35}+\cdots-3u+1)(u^{151}-2u^{150}+\cdots+21021u+2741)$
c_{12}	$(u^{36}+3u^{35}+\cdots-u+1)(u^{151}-4u^{150}+\cdots+2.01823\times10^{7}u-3589991)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{36}+2y^{35}+\cdots+47y+16)$ $\cdot(y^{151}+53y^{150}+\cdots+332733400y-1336336)$
c_2, c_5	$(y^{36}-22y^{35}+\cdots-65y+4)(y^{151}-67y^{150}+\cdots+52840y-1156)$
c_3	$(y^{36}+6y^{35}+\cdots+22y+1)$ $\cdot(y^{151}+49y^{150}+\cdots-1753792917130715680y-39007599726675889)$
c_4, c_{10}	$(y^{36}+22y^{35}+\cdots+20y+1)$ $\cdot(y^{151}+69y^{150}+\cdots-1865578y-97969)$
c_6, c_{11}	$(y^{36}+29y^{35}+\cdots+33y+1)$ $\cdot(y^{151}+88y^{150}+\cdots-10437379y-7513081)$
c_7	$(y^{36}-2y^{35}+\cdots-32y+1)$ $\cdot(y^{151}+5y^{150}+\cdots-2044025440y-23116864)$
c_8, c_{12}	$(y^{36}+33y^{35}+\cdots+29y+1)$ $\cdot(y^{151}+112y^{150}+\cdots+15695522090649y-12888035380081)$
c_9	$(y^{36}+2y^{35}+\cdots+40y+1)$ $\cdot(y^{151}+45y^{150}+\cdots+55326840498y-9597924961)$