## $11a_{30}$ $(K11a_{30})$



**Linearized knot diagam**

$$5 \quad 1 \quad 8 \quad 2 \quad 9 \quad 3 \quad 11 \quad 6 \quad 4 \quad 7 \quad 10$$

A knot diagram[1]

**Solving Sequence**

$$5,9 \underset{c_5}{\rightarrow} 2,6 \underset{c_1}{\rightarrow} 1 \underset{c_2}{\rightarrow} 3 \underset{c_4}{\rightarrow} 4 \underset{c_9}{\rightarrow} 10 \underset{c_8}{\rightarrow} 8 \underset{c_{11}}{\rightarrow} 11 \underset{c_7}{\rightarrow} 7 \longrightarrow\!\!\!\!\rightarrow c_3, c_6, c_{10}$$
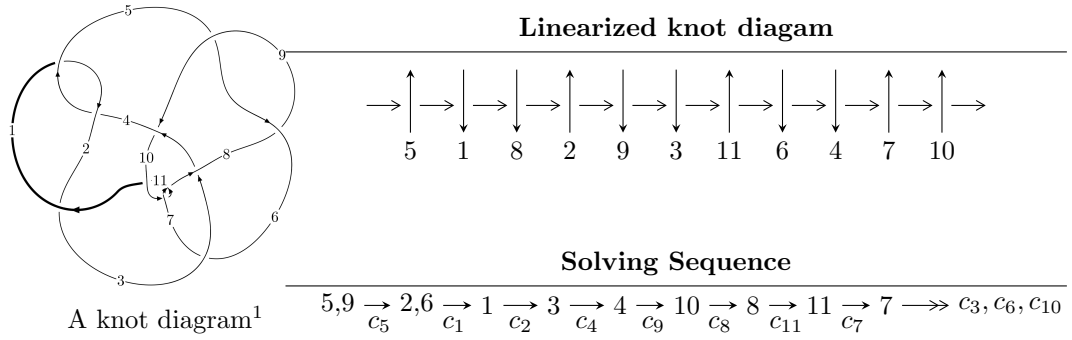
**Ideals for irreducible components[2]of $X_{\mathbf{par}}$**

$I_1^u = \langle 7.58522 \times 10^{150}u^{73} + 3.69824 \times 10^{151}u^{72} + \cdots + 2.11703 \times 10^{151}b - 1.30679 \times 10^{151},$
$\qquad 1.34088 \times 10^{151}u^{73} + 4.14720 \times 10^{151}u^{72} + \cdots + 2.11703 \times 10^{151}a - 7.19346 \times 10^{151}, \ u^{74} + 5u^{73} + \cdots + 3u$

\* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 74 representations.

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[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.** $I_1^u = \langle 7.59 \times 10^{150}u^{73} + 3.70 \times 10^{151}u^{72} + \cdots + 2.12 \times 10^{151}b - 1.31 \times 10^{151},\ 1.34 \times 10^{151}u^{73} + 4.15 \times 10^{151}u^{72} + \cdots + 2.12 \times 10^{151}a - 7.19 \times 10^{151},\ u^{74} + 5u^{73} + \cdots + 3u + 1 \rangle$

**(i) Arc colorings**

$a_5 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$

$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$

$a_2 = \begin{pmatrix} -0.633380u^{73} - 1.95897u^{72} + \cdots - 1.62167u + 3.39790 \\ -0.358296u^{73} - 1.74690u^{72} + \cdots - 2.41832u + 0.617277 \end{pmatrix}$

$a_6 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$

$a_1 = \begin{pmatrix} -0.275084u^{73} - 0.212070u^{72} + \cdots + 0.796648u + 2.78063 \\ -0.358296u^{73} - 1.74690u^{72} + \cdots - 2.41832u + 0.617277 \end{pmatrix}$

$a_3 = \begin{pmatrix} -1.99536u^{73} - 8.76954u^{72} + \cdots - 4.79281u + 2.43887 \\ -0.179627u^{73} - 0.746401u^{72} + \cdots - 1.87519u + 0.121634 \end{pmatrix}$

$a_4 = \begin{pmatrix} -2.11453u^{73} - 9.34193u^{72} + \cdots - 5.30085u + 1.98157 \\ -0.294975u^{73} - 1.37123u^{72} + \cdots - 2.33439u - 0.359107 \end{pmatrix}$

$a_{10} = \begin{pmatrix} -10.0014u^{73} - 53.9101u^{72} + \cdots - 19.0788u - 3.70357 \\ 0.992329u^{73} + 5.03105u^{72} + \cdots + 5.38895u + 0.998316 \end{pmatrix}$

$a_8 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$

$a_{11} = \begin{pmatrix} 7.15691u^{73} + 29.9861u^{72} + \cdots - 18.6635u - 6.17364 \\ -1.14246u^{73} - 5.02812u^{72} + \cdots - 5.85728u + 0.414142 \end{pmatrix}$

$a_7 = \begin{pmatrix} -2.25610u^{73} - 2.17362u^{72} + \cdots + 32.2123u + 10.8684 \\ 0.846917u^{73} + 3.12950u^{72} + \cdots + 2.74742u - 0.602325 \end{pmatrix}$

$a_7 = \begin{pmatrix} -2.25610u^{73} - 2.17362u^{72} + \cdots + 32.2123u + 10.8684 \\ 0.846917u^{73} + 3.12950u^{72} + \cdots + 2.74742u - 0.602325 \end{pmatrix}$

**(ii) Obstruction class** $= -1$

**(iii) Cusp Shapes** $= 1.48586u^{73} + 14.4117u^{72} + \cdots + 21.1776u - 3.60826$

**(iv) u-Polynomials at the component**

| Crossings | u-Polynomials at each crossing |
|---|---|
| $c_1, c_4$ | $u^{74} + u^{73} + \cdots + u + 1$ |
| $c_2$ | $u^{74} + 29u^{73} + \cdots + 57u + 1$ |
| $c_3$ | $u^{74} - u^{73} + \cdots - 11u + 1$ |
| $c_5, c_8$ | $u^{74} - 5u^{73} + \cdots - 3u + 1$ |
| $c_6$ | $u^{74} - 5u^{73} + \cdots - 355u + 199$ |
| $c_7, c_{10}$ | $u^{74} - 5u^{73} + \cdots - 3u + 1$ |
| $c_9$ | $u^{74} - 15u^{73} + \cdots + 10283u + 547$ |
| $c_{11}$ | $u^{74} - 31u^{73} + \cdots + 5u + 1$ |

**(v) Riley Polynomials at the component**

| Crossings | Riley Polynomials at each crossing |
|---|---|
| $c_1, c_4$ | $y^{74} + 29y^{73} + \cdots + 57y + 1$ |
| $c_2$ | $y^{74} + 33y^{73} + \cdots - 859y + 1$ |
| $c_3$ | $y^{74} + 5y^{73} + \cdots + 33y + 1$ |
| $c_5, c_8$ | $y^{74} + 53y^{73} + \cdots + 5y + 1$ |
| $c_6$ | $y^{74} - 63y^{73} + \cdots + 1039717y + 39601$ |
| $c_7, c_{10}$ | $y^{74} - 31y^{73} + \cdots + 5y + 1$ |
| $c_9$ | $y^{74} + 105y^{73} + \cdots - 37429635y + 299209$ |
| $c_{11}$ | $y^{74} + 25y^{73} + \cdots + 5y + 1$ |

## (vi) Complex Volumes and Cusp Shapes

| Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|
| $u = \phantom{-}0.625887 + 0.806388I$ | | |
| $a = \phantom{-}0.250075 - 1.091350I$ | $-1.13641 - 1.44571I$ | $0$ |
| $b = -0.155697 - 0.809103I$ | | |
| $u = \phantom{-}0.625887 - 0.806388I$ | | |
| $a = \phantom{-}0.250075 + 1.091350I$ | $-1.13641 + 1.44571I$ | $0$ |
| $b = -0.155697 + 0.809103I$ | | |
| $u = -0.948725 + 0.166866I$ | | |
| $a = -0.188753 + 0.646780I$ | $0.70694 + 6.29193I$ | $0$ |
| $b = -0.755320 + 0.469376I$ | | |
| $u = -0.948725 - 0.166866I$ | | |
| $a = -0.188753 - 0.646780I$ | $0.70694 - 6.29193I$ | $0$ |
| $b = -0.755320 - 0.469376I$ | | |
| $u = -0.018872 + 1.052340I$ | | |
| $a = \phantom{-}0.07987 + 7.64537I$ | $1.62217 + 0.05885I$ | $0$ |
| $b = \phantom{-}0.488379 - 0.853979I$ | | |
| $u = -0.018872 - 1.052340I$ | | |
| $a = \phantom{-}0.07987 - 7.64537I$ | $1.62217 - 0.05885I$ | $0$ |
| $b = \phantom{-}0.488379 + 0.853979I$ | | |
| $u = -0.212838 + 1.055230I$ | | |
| $a = -1.05204 + 1.70067I$ | $1.70570 + 3.66146I$ | $0$ |
| $b = \phantom{-}0.448860 + 1.081110I$ | | |
| $u = -0.212838 - 1.055230I$ | | |
| $a = -1.05204 - 1.70067I$ | $1.70570 - 3.66146I$ | $0$ |
| $b = \phantom{-}0.448860 - 1.081110I$ | | |
| $u = -0.046860 + 0.912129I$ | | |
| $a = \phantom{-}1.70545 + 5.91576I$ | $1.60692 + 3.97998I$ | $10.4876 - 34.2104I$ |
| $b = \phantom{-}0.473139 + 0.843516I$ | | |
| $u = -0.046860 - 0.912129I$ | | |
| $a = \phantom{-}1.70545 - 5.91576I$ | $1.60692 - 3.97998I$ | $10.4876 + 34.2104I$ |
| $b = \phantom{-}0.473139 - 0.843516I$ | | |

| Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|
| $u = \phantom{-}0.837681 + 0.298700I$ | | |
| $a = \phantom{-}0.88363 + 1.74577I$ | $-5.52578 - 1.17971I$ | $-8.59982 + 0.I$ |
| $b = -0.196875 + 1.092950I$ | | |
| $u = \phantom{-}0.837681 - 0.298700I$ | | |
| $a = \phantom{-}0.88363 - 1.74577I$ | $-5.52578 + 1.17971I$ | $-8.59982 + 0.I$ |
| $b = -0.196875 - 1.092950I$ | | |
| $u = -1.134810 + 0.070313I$ | | |
| $a = \phantom{-}0.13504 - 1.56031I$ | $-1.05098 + 11.53100I$ | $0$ |
| $b = -0.625155 - 1.073360I$ | | |
| $u = -1.134810 - 0.070313I$ | | |
| $a = \phantom{-}0.13504 + 1.56031I$ | $-1.05098 - 11.53100I$ | $0$ |
| $b = -0.625155 + 1.073360I$ | | |
| $u = -0.187862 + 1.125480I$ | | |
| $a = -1.08777 + 1.12032I$ | $1.81406 + 3.75257I$ | $0$ |
| $b = \phantom{-}0.613032 + 1.148640I$ | | |
| $u = -0.187862 - 1.125480I$ | | |
| $a = -1.08777 - 1.12032I$ | $1.81406 - 3.75257I$ | $0$ |
| $b = \phantom{-}0.613032 - 1.148640I$ | | |
| $u = \phantom{-}0.100705 + 1.152450I$ | | |
| $a = \phantom{-}0.772241 + 0.259406I$ | $1.47076 - 2.21494I$ | $0$ |
| $b = -0.044485 - 0.183329I$ | | |
| $u = \phantom{-}0.100705 - 1.152450I$ | | |
| $a = \phantom{-}0.772241 - 0.259406I$ | $1.47076 + 2.21494I$ | $0$ |
| $b = -0.044485 + 0.183329I$ | | |
| $u = \phantom{-}0.818597 + 0.196251I$ | | |
| $a = \phantom{-}0.063573 - 0.472652I$ | $-1.47671 - 1.08782I$ | $-3.50377 + 1.91086I$ |
| $b = -0.564206 - 0.338491I$ | | |
| $u = \phantom{-}0.818597 - 0.196251I$ | | |
| $a = \phantom{-}0.063573 + 0.472652I$ | $-1.47671 + 1.08782I$ | $-3.50377 - 1.91086I$ |
| $b = -0.564206 + 0.338491I$ | | |

| Solutions to $I_1^u$ | | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|---|
| $u =$ | $1.173450 + 0.131654I$ | | |
| $a =$ | $0.26621 + 1.50343I$ | $-3.26838 - 5.57628I$ | $0$ |
| $b =$ | $-0.558020 + 1.039770I$ | | |
| $u =$ | $1.173450 - 0.131654I$ | | |
| $a =$ | $0.26621 - 1.50343I$ | $-3.26838 + 5.57628I$ | $0$ |
| $b =$ | $-0.558020 - 1.039770I$ | | |
| $u =$ | $0.430301 + 1.100860I$ | | |
| $a =$ | $-0.329551 - 1.227650I$ | $-3.04551 - 3.42311I$ | $0$ |
| $b =$ | $0.002331 - 1.262770I$ | | |
| $u =$ | $0.430301 - 1.100860I$ | | |
| $a =$ | $-0.329551 + 1.227650I$ | $-3.04551 + 3.42311I$ | $0$ |
| $b =$ | $0.002331 + 1.262770I$ | | |
| $u =$ | $0.040169 + 1.186910I$ | | |
| $a =$ | $-0.363209 + 0.248191I$ | $3.70932 - 1.58303I$ | $0$ |
| $b =$ | $0.812545 - 0.520379I$ | | |
| $u =$ | $0.040169 - 1.186910I$ | | |
| $a =$ | $-0.363209 - 0.248191I$ | $3.70932 + 1.58303I$ | $0$ |
| $b =$ | $0.812545 + 0.520379I$ | | |
| $u =$ | $0.120286 + 1.184310I$ | | |
| $a =$ | $-0.825738 - 0.446465I$ | $4.76292 - 2.16296I$ | $0$ |
| $b =$ | $0.905631 - 0.988625I$ | | |
| $u =$ | $0.120286 - 1.184310I$ | | |
| $a =$ | $-0.825738 + 0.446465I$ | $4.76292 + 2.16296I$ | $0$ |
| $b =$ | $0.905631 + 0.988625I$ | | |
| $u =$ | $0.186745 + 1.177800I$ | | |
| $a =$ | $-0.819850 - 0.925557I$ | $3.27619 - 7.91420I$ | $0$ |
| $b =$ | $0.76722 - 1.25365I$ | | |
| $u =$ | $0.186745 - 1.177800I$ | | |
| $a =$ | $-0.819850 + 0.925557I$ | $3.27619 + 7.91420I$ | $0$ |
| $b =$ | $0.76722 + 1.25365I$ | | |

| Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|
| $u = -0.392213 + 1.130490I$ <br> $a = -0.437347 + 1.232360I$ <br> $b = \phantom{-}0.076509 + 1.358080I$ | $-1.83044 + 8.58305I$ | $0$ |
| $u = -0.392213 - 1.130490I$ <br> $a = -0.437347 - 1.232360I$ <br> $b = \phantom{-}0.076509 - 1.358080I$ | $-1.83044 - 8.58305I$ | $0$ |
| $u = -0.757116 + 0.241853I$ <br> $a = \phantom{-}1.02976 - 1.87392I$ <br> $b = -0.088093 - 1.145910I$ | $-4.54644 - 4.33882I$ | $-6.72843 + 3.56231I$ |
| $u = -0.757116 - 0.241853I$ <br> $a = \phantom{-}1.02976 + 1.87392I$ <br> $b = -0.088093 + 1.145910I$ | $-4.54644 + 4.33882I$ | $-6.72843 - 3.56231I$ |
| $u = -0.067110 + 1.217550I$ <br> $a = -0.391607 + 0.135020I$ <br> $b = \phantom{-}1.109800 + 0.659392I$ | $5.77201 + 4.94079I$ | $0$ |
| $u = -0.067110 - 1.217550I$ <br> $a = -0.391607 - 0.135020I$ <br> $b = \phantom{-}1.109800 - 0.659392I$ | $5.77201 - 4.94079I$ | $0$ |
| $u = -0.024144 + 1.223960I$ <br> $a = -0.163591 + 0.005366I$ <br> $b = \phantom{-}1.121610 + 0.263459I$ | $6.19874 - 1.17606I$ | $0$ |
| $u = -0.024144 - 1.223960I$ <br> $a = -0.163591 - 0.005366I$ <br> $b = \phantom{-}1.121610 - 0.263459I$ | $6.19874 + 1.17606I$ | $0$ |
| $u = -1.284930 + 0.186322I$ <br> $a = \phantom{-}0.105342 + 1.106140I$ <br> $b = -0.611725 + 0.837729I$ | $3.80887 - 2.41257I$ | $0$ |
| $u = -1.284930 - 0.186322I$ <br> $a = \phantom{-}0.105342 - 1.106140I$ <br> $b = -0.611725 - 0.837729I$ | $3.80887 + 2.41257I$ | $0$ |

| | Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|---|
| $u =$ | $0.189587 + 0.598875I$ | | |
| $a =$ | $2.16432 + 1.10393I$ | $1.52579 - 1.41180I$ | $0.43215 + 2.14680I$ |
| $b =$ | $0.395146 + 0.549899I$ | | |
| $u =$ | $0.189587 - 0.598875I$ | | |
| $a =$ | $2.16432 - 1.10393I$ | $1.52579 + 1.41180I$ | $0.43215 - 2.14680I$ |
| $b =$ | $0.395146 - 0.549899I$ | | |
| $u =$ | $0.42111 + 1.36965I$ | | |
| $a =$ | $0.139491 + 0.258840I$ | $3.37758 - 5.71754I$ | $0$ |
| $b =$ | $-0.888102 - 0.494344I$ | | |
| $u =$ | $0.42111 - 1.36965I$ | | |
| $a =$ | $0.139491 - 0.258840I$ | $3.37758 + 5.71754I$ | $0$ |
| $b =$ | $-0.888102 + 0.494344I$ | | |
| $u =$ | $-0.43876 + 1.36676I$ | | |
| $a =$ | $0.050379 - 0.285013I$ | $5.45791 + 11.23760I$ | $0$ |
| $b =$ | $-0.971458 + 0.512667I$ | | |
| $u =$ | $-0.43876 - 1.36676I$ | | |
| $a =$ | $0.050379 + 0.285013I$ | $5.45791 - 11.23760I$ | $0$ |
| $b =$ | $-0.971458 - 0.512667I$ | | |
| $u =$ | $-0.192289 + 0.521498I$ | | |
| $a =$ | $1.68589 + 0.46680I$ | $1.59490 - 1.49760I$ | $1.53502 + 0.67981I$ |
| $b =$ | $0.331910 + 0.162106I$ | | |
| $u =$ | $-0.192289 - 0.521498I$ | | |
| $a =$ | $1.68589 - 0.46680I$ | $1.59490 + 1.49760I$ | $1.53502 - 0.67981I$ |
| $b =$ | $0.331910 - 0.162106I$ | | |
| $u = -0.43660 + 1.41313I$ | | | |
| $a =$ | $0.0966887 - 0.0595436I$ | $9.17547 + 3.15433I$ | $0$ |
| $b = -0.838266 + 0.662306I$ | | | |
| $u = -0.43660 - 1.41313I$ | | | |
| $a =$ | $0.0966887 + 0.0595436I$ | $9.17547 - 3.15433I$ | $0$ |
| $b = -0.838266 - 0.662306I$ | | | |

| Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|
| $u = -0.52442 + 1.38928I$ $a = \phantom{-}1.12438 - 1.24979I$ $b = -0.706951 - 1.138360I$ | $3.5208 + 17.3478I$ | $0$ |
| $u = -0.52442 - 1.38928I$ $a = \phantom{-}1.12438 + 1.24979I$ $b = -0.706951 + 1.138360I$ | $3.5208 - 17.3478I$ | $0$ |
| $u = \phantom{-}0.52458 + 1.40532I$ $a = \phantom{-}1.11916 + 1.19302I$ $b = -0.673568 + 1.112400I$ | $1.50429 - 11.48100I$ | $0$ |
| $u = \phantom{-}0.52458 - 1.40532I$ $a = \phantom{-}1.11916 - 1.19302I$ $b = -0.673568 - 1.112400I$ | $1.50429 + 11.48100I$ | $0$ |
| $u = -0.56997 + 1.40561I$ $a = \phantom{-}0.99031 - 1.17785I$ $b = -0.710205 - 1.019160I$ | $8.07842 + 8.92677I$ | $0$ |
| $u = -0.56997 - 1.40561I$ $a = \phantom{-}0.99031 + 1.17785I$ $b = -0.710205 + 1.019160I$ | $8.07842 - 8.92677I$ | $0$ |
| $u = -0.172386 + 0.392750I$ $a = \phantom{-}2.17729 + 1.53861I$ $b = \phantom{-}0.611740 + 0.677389I$ | $1.44361 + 4.12461I$ | $-1.60848 - 8.74026I$ |
| $u = -0.172386 - 0.392750I$ $a = \phantom{-}2.17729 - 1.53861I$ $b = \phantom{-}0.611740 - 0.677389I$ | $1.44361 - 4.12461I$ | $-1.60848 + 8.74026I$ |
| $u = -0.82422 + 1.34124I$ $a = \phantom{-}0.791277 - 1.047410I$ $b = -0.585176 - 0.803100I$ | $3.48567 - 0.24626I$ | $0$ |
| $u = -0.82422 - 1.34124I$ $a = \phantom{-}0.791277 + 1.047410I$ $b = -0.585176 + 0.803100I$ | $3.48567 + 0.24626I$ | $0$ |

| Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol}+\sqrt{-1}CS)$ | Cusp shape |
|---|---|---|
| $u = -0.395918 + 0.044210I$ | | |
| $a = \phantom{-}1.82559 - 1.94480I$ | $-1.13505 - 1.41023I$ | $-4.53209 + 0.05631I$ |
| $b = \phantom{-}0.427892 - 1.048720I$ | | |
| $u = -0.395918 - 0.044210I$ | | |
| $a = \phantom{-}1.82559 + 1.94480I$ | $-1.13505 + 1.41023I$ | $-4.53209 - 0.05631I$ |
| $b = \phantom{-}0.427892 + 1.048720I$ | | |
| $u = \phantom{-}0.26620 + 1.58230I$ | | |
| $a = \phantom{-}0.535870 - 0.189293I$ | $1.85423 - 1.80714I$ | $0$ |
| $b = -0.510315 - 0.716522I$ | | |
| $u = \phantom{-}0.26620 - 1.58230I$ | | |
| $a = \phantom{-}0.535870 + 0.189293I$ | $1.85423 + 1.80714I$ | $0$ |
| $b = -0.510315 + 0.716522I$ | | |
| $u = \phantom{-}0.388854 + 0.067367I$ | | |
| $a = \phantom{-}1.98534 - 2.01885I$ | $-0.22924 - 5.70067I$ | $-3.12131 + 5.75856I$ |
| $b = \phantom{-}0.549545 - 1.067760I$ | | |
| $u = \phantom{-}0.388854 - 0.067367I$ | | |
| $a = \phantom{-}1.98534 + 2.01885I$ | $-0.22924 + 5.70067I$ | $-3.12131 - 5.75856I$ |
| $b = \phantom{-}0.549545 + 1.067760I$ | | |
| $u = -0.222996 + 0.282133I$ | | |
| $a = \phantom{-}1.85857 - 1.61104I$ | $-0.30697 - 1.55903I$ | $-1.96359 + 5.08447I$ |
| $b = \phantom{-}0.372530 - 0.824350I$ | | |
| $u = -0.222996 - 0.282133I$ | | |
| $a = \phantom{-}1.85857 + 1.61104I$ | $-0.30697 + 1.55903I$ | $-1.96359 - 5.08447I$ |
| $b = \phantom{-}0.372530 + 0.824350I$ | | |
| $u = \phantom{-}0.60524 + 1.54626I$ | | |
| $a = \phantom{-}0.948097 + 0.971022I$ | $1.08144 - 6.25961I$ | $0$ |
| $b = -0.570967 + 0.950116I$ | | |
| $u = \phantom{-}0.60524 - 1.54626I$ | | |
| $a = \phantom{-}0.948097 - 0.971022I$ | $1.08144 + 6.25961I$ | $0$ |
| $b = -0.570967 - 0.950116I$ | | |

| | Solutions to $I_1^u$ | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---|---|---|---|
| $u =$ | $0.241373 + 0.216455I$ | | |
| $a =$ | $2.17068 - 1.78758I$ | $0.979140 - 0.794104I$ | $-4.88709 - 0.51596I$ |
| $b =$ | $0.636273 - 0.871096I$ | | |
| $u =$ | $0.241373 - 0.216455I$ | | |
| $a =$ | $2.17068 + 1.78758I$ | $0.979140 + 0.794104I$ | $-4.88709 + 0.51596I$ |
| $b =$ | $0.636273 + 0.871096I$ | | |
| $u =$ | $-0.61772 + 1.58812I$ | | |
| $a =$ | $0.204945 + 0.462300I$ | $3.23570 - 4.91684I$ | $0$ |
| $b =$ | $-0.589516 + 0.882245I$ | | |
| $u =$ | $-0.61772 - 1.58812I$ | | |
| $a =$ | $0.204945 - 0.462300I$ | $3.23570 + 4.91684I$ | $0$ |
| $b =$ | $-0.589516 - 0.882245I$ | | |

**II. u-Polynomials**

| Crossings | u-Polynomials at each crossing |
|---|---|
| $c_1, c_4$ | $u^{74} + u^{73} + \cdots + u + 1$ |
| $c_2$ | $u^{74} + 29u^{73} + \cdots + 57u + 1$ |
| $c_3$ | $u^{74} - u^{73} + \cdots - 11u + 1$ |
| $c_5, c_8$ | $u^{74} - 5u^{73} + \cdots - 3u + 1$ |
| $c_6$ | $u^{74} - 5u^{73} + \cdots - 355u + 199$ |
| $c_7, c_{10}$ | $u^{74} - 5u^{73} + \cdots - 3u + 1$ |
| $c_9$ | $u^{74} - 15u^{73} + \cdots + 10283u + 547$ |
| $c_{11}$ | $u^{74} - 31u^{73} + \cdots + 5u + 1$ |

**III. Riley Polynomials**

| Crossings | Riley Polynomials at each crossing |
| --- | --- |
| $c_1, c_4$ | $y^{74} + 29y^{73} + \cdots + 57y + 1$ |
| $c_2$ | $y^{74} + 33y^{73} + \cdots - 859y + 1$ |
| $c_3$ | $y^{74} + 5y^{73} + \cdots + 33y + 1$ |
| $c_5, c_8$ | $y^{74} + 53y^{73} + \cdots + 5y + 1$ |
| $c_6$ | $y^{74} - 63y^{73} + \cdots + 1039717y + 39601$ |
| $c_7, c_{10}$ | $y^{74} - 31y^{73} + \cdots + 5y + 1$ |
| $c_9$ | $y^{74} + 105y^{73} + \cdots - 37429635y + 299209$ |
| $c_{11}$ | $y^{74} + 25y^{73} + \cdots + 5y + 1$ |