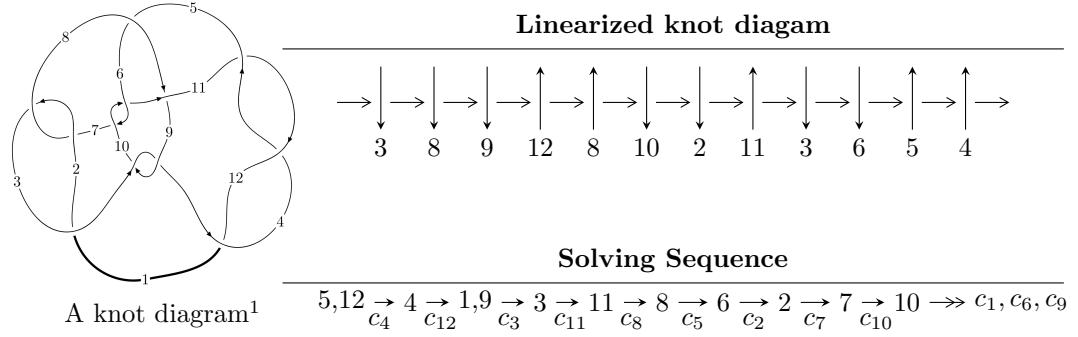


$12n_{0662}$ ($K12n_{0662}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 3.56429 \times 10^{66} u^{46} + 1.38822 \times 10^{67} u^{45} + \dots + 1.35802 \times 10^{68} b - 1.96080 \times 10^{67},$$

$$- 2.47131 \times 10^{68} u^{46} - 9.94693 \times 10^{68} u^{45} + \dots + 1.49382 \times 10^{69} a + 2.99067 \times 10^{69}, u^{47} + 4u^{46} + \dots + u +$$

$$I_2^u = \langle -4u^{16} + 4u^{15} + \dots + b - 4, -2u^{17} + 2u^{16} + \dots + a - 4, u^{18} - u^{17} + \dots - 4u + 1 \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 65 representations.

¹The image of knot diagram is generated by the software “**Draw programme**” developed by Andrew Bartholomew(<http://www.layer8.co.uk/math/draw/index.htm#Running-draw>), where we modified some parts for our purpose(<https://github.com/CATsTAILs/LinksPainter>).

²All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.

$$I_1^u = \langle 3.56 \times 10^{66} u^{46} + 1.39 \times 10^{67} u^{45} + \dots + 1.36 \times 10^{68} b - 1.96 \times 10^{67}, -2.47 \times 10^{68} u^{46} - 9.95 \times 10^{68} u^{45} + \dots + 1.49 \times 10^{69} a + 2.99 \times 10^{69}, u^{47} + 4u^{46} + \dots + u + 11 \rangle$$

(i) **Arc colorings**

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

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.165436u^{46} + 0.665872u^{45} + \dots + 47.6506u - 2.00203 \\ -0.0262463u^{46} - 0.102224u^{45} + \dots + 2.75590u + 0.144387 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.0228210u^{46} + 0.0919063u^{45} + \dots + 22.9291u + 6.98832 \\ -0.0353642u^{46} - 0.136035u^{45} + \dots - 1.25538u + 0.587575 \end{pmatrix}$$

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

$$a_8 = \begin{pmatrix} 0.172179u^{46} + 0.702253u^{45} + \dots + 49.1886u - 1.92623 \\ -0.0329894u^{46} - 0.138604u^{45} + \dots + 1.21792u + 0.0685910 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -0.0344253u^{46} - 0.174526u^{45} + \dots + 8.78426u + 2.63038 \\ -0.0166373u^{46} - 0.0395220u^{45} + \dots - 0.358128u + 0.921788 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -0.0320584u^{46} - 0.155060u^{45} + \dots - 31.9101u + 3.00707 \\ -0.0833370u^{46} - 0.330300u^{45} + \dots - 4.63638u + 0.105685 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} -0.0658054u^{46} - 0.226720u^{45} + \dots - 5.52898u - 1.15248 \\ 0.0661854u^{46} + 0.269634u^{45} + \dots + 2.54666u + 0.0845939 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.103828u^{46} + 0.400441u^{45} + \dots + 14.9287u - 1.57199 \\ -0.0711995u^{46} - 0.276077u^{45} + \dots - 0.849870u + 0.420108 \end{pmatrix}$$

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

(iii) **Cusp Shapes** = $-0.0933045u^{46} - 0.348811u^{45} + \dots + 5.64696u + 9.13255$

(iv) u-Polynomials at the component

| Crossings | u-Polynomials at each crossing |
|-----------------------|---|
| c_1 | $u^{47} + 56u^{46} + \cdots + 13184125u + 534361$ |
| c_2, c_7 | $u^{47} + 2u^{46} + \cdots - 315u + 731$ |
| c_3, c_9 | $u^{47} - u^{46} + \cdots - 3782u + 667$ |
| c_4, c_{11}, c_{12} | $u^{47} + 4u^{46} + \cdots + u + 11$ |
| c_5 | $u^{47} + 8u^{46} + \cdots + 151u + 149$ |
| c_6, c_{10} | $u^{47} + u^{46} + \cdots + 368u - 103$ |
| c_8 | $u^{47} - 4u^{45} + \cdots + 23u + 3$ |

(v) Riley Polynomials at the component

| Crossings | Riley Polynomials at each crossing |
|-----------------------|---|
| c_1 | $y^{47} - 124y^{46} + \cdots + 5168548507345y - 285541678321$ |
| c_2, c_7 | $y^{47} - 56y^{46} + \cdots + 13184125y - 534361$ |
| c_3, c_9 | $y^{47} - 9y^{46} + \cdots + 9199640y - 444889$ |
| c_4, c_{11}, c_{12} | $y^{47} + 54y^{46} + \cdots - 10053y - 121$ |
| c_5 | $y^{47} + 32y^{46} + \cdots - 1091719y - 22201$ |
| c_6, c_{10} | $y^{47} + 5y^{46} + \cdots + 92988y - 10609$ |
| c_8 | $y^{47} - 8y^{46} + \cdots - 113y - 9$ |

(vi) Complex Volumes and Cusp Shapes

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|------------------------------|---------------------------------------|-----------------------|
| $u = 0.230731 + 1.086340I$ | | |
| $a = 0.094144 - 1.313970I$ | $2.98236 + 2.61578I$ | $1.41474 - 2.87187I$ |
| $b = 0.243008 + 0.226914I$ | | |
| $u = 0.230731 - 1.086340I$ | | |
| $a = 0.094144 + 1.313970I$ | $2.98236 - 2.61578I$ | $1.41474 + 2.87187I$ |
| $b = 0.243008 - 0.226914I$ | | |
| $u = 0.903444 + 0.695127I$ | | |
| $a = 0.0854529 - 0.0543974I$ | $0.73075 + 3.15581I$ | $-8.86017 - 6.34037I$ |
| $b = 0.609527 + 0.047815I$ | | |
| $u = 0.903444 - 0.695127I$ | | |
| $a = 0.0854529 + 0.0543974I$ | $0.73075 - 3.15581I$ | $-8.86017 + 6.34037I$ |
| $b = 0.609527 - 0.047815I$ | | |
| $u = -0.818444$ | | |
| $a = 0.271814$ | -3.88729 | 1.39940 |
| $b = -1.18073$ | | |
| $u = -0.315844 + 0.740860I$ | | |
| $a = 0.67860 - 1.93996I$ | $-7.17929 - 3.64393I$ | $-6.03198 + 2.78404I$ |
| $b = -0.053790 + 1.035250I$ | | |
| $u = -0.315844 - 0.740860I$ | | |
| $a = 0.67860 + 1.93996I$ | $-7.17929 + 3.64393I$ | $-6.03198 - 2.78404I$ |
| $b = -0.053790 - 1.035250I$ | | |
| $u = 0.660176 + 0.415759I$ | | |
| $a = -0.815252 - 0.503616I$ | $0.54494 + 2.07931I$ | $-3.70506 - 3.58771I$ |
| $b = -0.269834 + 0.274621I$ | | |
| $u = 0.660176 - 0.415759I$ | | |
| $a = -0.815252 + 0.503616I$ | $0.54494 - 2.07931I$ | $-3.70506 + 3.58771I$ |
| $b = -0.269834 - 0.274621I$ | | |
| $u = -0.259697 + 1.247040I$ | | |
| $a = 1.70284 - 1.07261I$ | $-7.62776 - 3.97997I$ | 0 |
| $b = -1.80846 + 0.76841I$ | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|-----------------------|
| $u = -0.259697 - 1.247040I$ | | |
| $a = 1.70284 + 1.07261I$ | $-7.62776 + 3.97997I$ | 0 |
| $b = -1.80846 - 0.76841I$ | | |
| $u = -1.048870 + 0.734928I$ | | |
| $a = -0.199629 + 0.382583I$ | $-6.81414 - 8.86603I$ | 0 |
| $b = -0.707111 - 0.228325I$ | | |
| $u = -1.048870 - 0.734928I$ | | |
| $a = -0.199629 - 0.382583I$ | $-6.81414 + 8.86603I$ | 0 |
| $b = -0.707111 + 0.228325I$ | | |
| $u = 0.101342 + 1.311880I$ | | |
| $a = -0.412441 + 0.121949I$ | $-1.93463 - 1.62052I$ | 0 |
| $b = 0.688238 + 1.091370I$ | | |
| $u = 0.101342 - 1.311880I$ | | |
| $a = -0.412441 - 0.121949I$ | $-1.93463 + 1.62052I$ | 0 |
| $b = 0.688238 - 1.091370I$ | | |
| $u = -0.16958 + 1.41249I$ | | |
| $a = -1.68224 + 0.29426I$ | $-4.53442 - 4.80175I$ | 0 |
| $b = 2.51973 + 0.29584I$ | | |
| $u = -0.16958 - 1.41249I$ | | |
| $a = -1.68224 - 0.29426I$ | $-4.53442 + 4.80175I$ | 0 |
| $b = 2.51973 - 0.29584I$ | | |
| $u = 0.009774 + 0.569826I$ | | |
| $a = -0.14382 + 2.50997I$ | $-6.39394 + 2.76050I$ | $-5.07909 - 4.30524I$ |
| $b = -1.11181 - 1.45066I$ | | |
| $u = 0.009774 - 0.569826I$ | | |
| $a = -0.14382 - 2.50997I$ | $-6.39394 - 2.76050I$ | $-5.07909 + 4.30524I$ |
| $b = -1.11181 + 1.45066I$ | | |
| $u = 0.24676 + 1.41083I$ | | |
| $a = -0.974844 + 0.134792I$ | $-1.56923 + 2.42458I$ | 0 |
| $b = 1.208570 - 0.117394I$ | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|-----------------------|
| $u = 0.24676 - 1.41083I$ | | |
| $a = -0.974844 - 0.134792I$ | $-1.56923 - 2.42458I$ | 0 |
| $b = 1.208570 + 0.117394I$ | | |
| $u = 0.360762 + 0.434634I$ | | |
| $a = 0.637654 - 0.160116I$ | $5.11013 - 0.60703I$ | $1.28346 - 3.49418I$ |
| $b = 0.121281 - 1.284990I$ | | |
| $u = 0.360762 - 0.434634I$ | | |
| $a = 0.637654 + 0.160116I$ | $5.11013 + 0.60703I$ | $1.28346 + 3.49418I$ |
| $b = 0.121281 + 1.284990I$ | | |
| $u = 0.26561 + 1.41132I$ | | |
| $a = 1.54991 - 0.05070I$ | $-5.19455 + 5.50491I$ | 0 |
| $b = -2.44053 + 0.39781I$ | | |
| $u = 0.26561 - 1.41132I$ | | |
| $a = 1.54991 + 0.05070I$ | $-5.19455 - 5.50491I$ | 0 |
| $b = -2.44053 - 0.39781I$ | | |
| $u = -0.125509 + 0.520647I$ | | |
| $a = -0.765539 - 0.405108I$ | $-0.839180 + 0.890051I$ | $-6.16723 - 4.38006I$ |
| $b = -0.309014 + 0.532780I$ | | |
| $u = -0.125509 - 0.520647I$ | | |
| $a = -0.765539 + 0.405108I$ | $-0.839180 - 0.890051I$ | $-6.16723 + 4.38006I$ |
| $b = -0.309014 - 0.532780I$ | | |
| $u = -0.435533 + 0.178866I$ | | |
| $a = 1.50551 - 0.63819I$ | $0.66530 - 2.58665I$ | $-6.41102 + 3.60115I$ |
| $b = 0.574481 - 0.251116I$ | | |
| $u = -0.435533 - 0.178866I$ | | |
| $a = 1.50551 + 0.63819I$ | $0.66530 + 2.58665I$ | $-6.41102 - 3.60115I$ |
| $b = 0.574481 + 0.251116I$ | | |
| $u = -0.08203 + 1.58782I$ | | |
| $a = 1.268210 - 0.226418I$ | $-8.01777 - 0.17418I$ | 0 |
| $b = -1.97982 - 0.29031I$ | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|------------|
| $u = -0.08203 - 1.58782I$ | | |
| $a = 1.268210 + 0.226418I$ | $-8.01777 + 0.17418I$ | 0 |
| $b = -1.97982 + 0.29031I$ | | |
| $u = -0.11259 + 1.60042I$ | | |
| $a = 0.729677 - 0.296946I$ | $-4.00355 + 1.63505I$ | 0 |
| $b = -1.135860 + 0.762303I$ | | |
| $u = -0.11259 - 1.60042I$ | | |
| $a = 0.729677 + 0.296946I$ | $-4.00355 - 1.63505I$ | 0 |
| $b = -1.135860 - 0.762303I$ | | |
| $u = 0.03550 + 1.61092I$ | | |
| $a = 1.29442 + 0.57703I$ | $-14.1356 + 3.0975I$ | 0 |
| $b = -1.86006 + 0.22479I$ | | |
| $u = 0.03550 - 1.61092I$ | | |
| $a = 1.29442 - 0.57703I$ | $-14.1356 - 3.0975I$ | 0 |
| $b = -1.86006 - 0.22479I$ | | |
| $u = -0.12802 + 1.62058I$ | | |
| $a = -1.292130 - 0.127233I$ | $-15.2468 - 5.5387I$ | 0 |
| $b = 2.04273 - 0.55165I$ | | |
| $u = -0.12802 - 1.62058I$ | | |
| $a = -1.292130 + 0.127233I$ | $-15.2468 + 5.5387I$ | 0 |
| $b = 2.04273 + 0.55165I$ | | |
| $u = 0.25028 + 1.64833I$ | | |
| $a = -1.240380 + 0.010109I$ | $-7.20599 + 7.37595I$ | 0 |
| $b = 1.92318 - 0.59872I$ | | |
| $u = 0.25028 - 1.64833I$ | | |
| $a = -1.240380 - 0.010109I$ | $-7.20599 - 7.37595I$ | 0 |
| $b = 1.92318 + 0.59872I$ | | |
| $u = -1.40824 + 0.91175I$ | | |
| $a = -0.059175 - 0.279970I$ | $-6.49736 + 1.06394I$ | 0 |
| $b = 0.184771 - 0.022624I$ | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|----------------------|
| $u = -1.40824 - 0.91175I$ | | |
| $a = -0.059175 + 0.279970I$ | $-6.49736 - 1.06394I$ | 0 |
| $b = 0.184771 + 0.022624I$ | | |
| $u = -0.35417 + 1.64601I$ | | |
| $a = 1.48951 + 0.08896I$ | $-14.5107 - 14.0705I$ | 0 |
| $b = -2.26832 - 0.64624I$ | | |
| $u = -0.35417 - 1.64601I$ | | |
| $a = 1.48951 - 0.08896I$ | $-14.5107 + 14.0705I$ | 0 |
| $b = -2.26832 + 0.64624I$ | | |
| $u = -0.25743 + 1.76322I$ | | |
| $a = -1.194790 - 0.225335I$ | $-16.0072 - 4.6010I$ | 0 |
| $b = 1.92781 + 0.54097I$ | | |
| $u = -0.25743 - 1.76322I$ | | |
| $a = -1.194790 + 0.225335I$ | $-16.0072 + 4.6010I$ | 0 |
| $b = 1.92781 - 0.54097I$ | | |
| $u = 0.042363 + 0.155552I$ | | |
| $a = -4.48250 + 6.51526I$ | $2.00944 + 2.36150I$ | $6.99099 + 1.74215I$ |
| $b = -0.008354 + 0.583528I$ | | |
| $u = 0.042363 - 0.155552I$ | | |
| $a = -4.48250 - 6.51526I$ | $2.00944 - 2.36150I$ | $6.99099 - 1.74215I$ |
| $b = -0.008354 - 0.583528I$ | | |

$$I_2^u = \langle -4u^{16} + 4u^{15} + \dots + b - 4, -2u^{17} + 2u^{16} + \dots + a - 4, u^{18} - u^{17} + \dots - 4u + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_5 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_1 &= \begin{pmatrix} u \\ u^3 + u \end{pmatrix} \\ a_9 &= \begin{pmatrix} 2u^{17} - 2u^{16} + \dots - 8u + 4 \\ 4u^{16} - 4u^{15} + \dots - 19u + 4 \end{pmatrix} \\ a_3 &= \begin{pmatrix} 2u^{17} - 6u^{16} + \dots + 30u - 2 \\ 4u^{16} - 3u^{15} + \dots - 12u + 5 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -u \\ u \end{pmatrix} \\ a_8 &= \begin{pmatrix} 5u^{17} + 37u^{15} + \dots - 22u + 8 \\ -3u^{17} + 2u^{16} + \dots + 7u^2 - 5u \end{pmatrix} \\ a_6 &= \begin{pmatrix} u^{17} + 7u^{16} + \dots - 5u + 6 \\ -5u^{16} + 5u^{15} + \dots + 10u - 2 \end{pmatrix} \\ a_2 &= \begin{pmatrix} u^{17} - 5u^{16} + \dots + 18u + 1 \\ u^{17} + 3u^{16} + \dots - 20u + 6 \end{pmatrix} \\ a_7 &= \begin{pmatrix} -3u^{17} + u^{16} + \dots - 3u - 3 \\ 2u^{17} - u^{16} + \dots + 5u - 2 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -6u^{17} + 5u^{16} + \dots + 30u - 8 \\ 7u^{17} - 7u^{16} + \dots + 15u - 1 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

$$(iii) \text{ Cusp Shapes} = u^{17} + 15u^{16} - 6u^{15} + 124u^{14} - 78u^{13} + 428u^{12} - 330u^{11} + 860u^{10} - 804u^9 + 1204u^8 - 1198u^7 + 1236u^6 - 1032u^5 + 790u^4 - 445u^3 + 213u^2 - 65u + 14$$

(iv) u-Polynomials at the component

| Crossings | u-Polynomials at each crossing |
|------------------|--|
| c_1 | $u^{18} - 15u^{17} + \cdots - 10u + 1$ |
| c_2 | $u^{18} - u^{17} + \cdots - 5u^2 + 1$ |
| c_3 | $u^{18} + 6u^{16} + \cdots - u + 1$ |
| c_4 | $u^{18} - u^{17} + \cdots - 4u + 1$ |
| c_5 | $u^{18} + u^{17} + \cdots - 2u + 1$ |
| c_6 | $u^{18} + 7u^{16} + \cdots - 3u + 1$ |
| c_7 | $u^{18} + u^{17} + \cdots - 5u^2 + 1$ |
| c_8 | $u^{18} + 5u^{17} + \cdots + 4u + 1$ |
| c_9 | $u^{18} + 6u^{16} + \cdots + u + 1$ |
| c_{10} | $u^{18} + 7u^{16} + \cdots + 3u + 1$ |
| c_{11}, c_{12} | $u^{18} + u^{17} + \cdots + 4u + 1$ |

(v) Riley Polynomials at the component

| Crossings | Riley Polynomials at each crossing |
|-----------------------|--|
| c_1 | $y^{18} - 19y^{17} + \cdots + 6y + 1$ |
| c_2, c_7 | $y^{18} - 15y^{17} + \cdots - 10y + 1$ |
| c_3, c_9 | $y^{18} + 12y^{17} + \cdots + 11y + 1$ |
| c_4, c_{11}, c_{12} | $y^{18} + 19y^{17} + \cdots + 24y + 1$ |
| c_5 | $y^{18} + 13y^{17} + \cdots + 22y + 1$ |
| c_6, c_{10} | $y^{18} + 14y^{17} + \cdots + 15y + 1$ |
| c_8 | $y^{18} - 11y^{17} + \cdots + 12y + 1$ |

(vi) Complex Volumes and Cusp Shapes

| Solutions to I_2^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|-----------------------|
| $u = 0.047457 + 1.260530I$ | | |
| $a = -0.463361 - 0.372899I$ | $-1.07422 - 1.82174I$ | $2.53563 + 3.44461I$ |
| $b = 0.75763 + 1.65026I$ | | |
| $u = 0.047457 - 1.260530I$ | | |
| $a = -0.463361 + 0.372899I$ | $-1.07422 + 1.82174I$ | $2.53563 - 3.44461I$ |
| $b = 0.75763 - 1.65026I$ | | |
| $u = 0.624909 + 0.377226I$ | | |
| $a = -1.085780 - 0.083376I$ | $1.55326 + 2.89712I$ | $3.21609 - 6.87440I$ |
| $b = -0.359942 + 0.016839I$ | | |
| $u = 0.624909 - 0.377226I$ | | |
| $a = -1.085780 + 0.083376I$ | $1.55326 - 2.89712I$ | $3.21609 + 6.87440I$ |
| $b = -0.359942 - 0.016839I$ | | |
| $u = -0.811576 + 0.982182I$ | | |
| $a = -0.203378 - 0.578815I$ | $-5.97620 + 1.12633I$ | $-2.64487 - 2.46137I$ |
| $b = 0.041786 + 0.805202I$ | | |
| $u = -0.811576 - 0.982182I$ | | |
| $a = -0.203378 + 0.578815I$ | $-5.97620 - 1.12633I$ | $-2.64487 + 2.46137I$ |
| $b = 0.041786 - 0.805202I$ | | |
| $u = -0.248975 + 1.257170I$ | | |
| $a = -1.70042 + 1.40960I$ | $-8.03080 - 4.68996I$ | $-8.61446 + 8.30623I$ |
| $b = 2.26145 - 1.10023I$ | | |
| $u = -0.248975 - 1.257170I$ | | |
| $a = -1.70042 - 1.40960I$ | $-8.03080 + 4.68996I$ | $-8.61446 - 8.30623I$ |
| $b = 2.26145 + 1.10023I$ | | |
| $u = 0.310491 + 0.635862I$ | | |
| $a = -0.93533 + 1.31096I$ | $1.60805 + 2.77366I$ | $-4.09387 - 6.07484I$ |
| $b = -0.187193 - 0.083340I$ | | |
| $u = 0.310491 - 0.635862I$ | | |
| $a = -0.93533 - 1.31096I$ | $1.60805 - 2.77366I$ | $-4.09387 + 6.07484I$ |
| $b = -0.187193 + 0.083340I$ | | |

| Solutions to I_2^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-----------------------------|---------------------------------------|-----------------------|
| $u = 0.014631 + 1.305350I$ | | |
| $a = 0.630377 - 1.122440I$ | $1.59046 - 1.08301I$ | $-3.32575 + 0.28729I$ |
| $b = -0.846119 + 0.087531I$ | | |
| $u = 0.014631 - 1.305350I$ | | |
| $a = 0.630377 + 1.122440I$ | $1.59046 + 1.08301I$ | $-3.32575 - 0.28729I$ |
| $b = -0.846119 - 0.087531I$ | | |
| $u = 0.20726 + 1.40864I$ | | |
| $a = 1.66745 - 0.04254I$ | $-3.94351 + 5.76224I$ | $-0.19696 - 7.32113I$ |
| $b = -2.57675 + 0.57229I$ | | |
| $u = 0.20726 - 1.40864I$ | | |
| $a = 1.66745 + 0.04254I$ | $-3.94351 - 5.76224I$ | $-0.19696 + 7.32113I$ |
| $b = -2.57675 - 0.57229I$ | | |
| $u = 0.29358 + 1.54080I$ | | |
| $a = -0.716837 + 0.233224I$ | $-2.32605 + 2.81106I$ | $-7.01886 - 6.08609I$ |
| $b = 1.191490 - 0.331330I$ | | |
| $u = 0.29358 - 1.54080I$ | | |
| $a = -0.716837 - 0.233224I$ | $-2.32605 - 2.81106I$ | $-7.01886 + 6.08609I$ |
| $b = 1.191490 + 0.331330I$ | | |
| $u = 0.062225 + 0.316348I$ | | |
| $a = 1.80727 - 1.62985I$ | $5.08446 + 1.31343I$ | $0.64304 - 6.49722I$ |
| $b = -0.282355 - 1.294230I$ | | |
| $u = 0.062225 - 0.316348I$ | | |
| $a = 1.80727 + 1.62985I$ | $5.08446 - 1.31343I$ | $0.64304 + 6.49722I$ |
| $b = -0.282355 + 1.294230I$ | | |

III. u-Polynomials

| Crossings | u-Polynomials at each crossing |
|------------------|---|
| c_1 | $(u^{18} - 15u^{17} + \dots - 10u + 1)$ $\cdot (u^{47} + 56u^{46} + \dots + 13184125u + 534361)$ |
| c_2 | $(u^{18} - u^{17} + \dots - 5u^2 + 1)(u^{47} + 2u^{46} + \dots - 315u + 731)$ |
| c_3 | $(u^{18} + 6u^{16} + \dots - u + 1)(u^{47} - u^{46} + \dots - 3782u + 667)$ |
| c_4 | $(u^{18} - u^{17} + \dots - 4u + 1)(u^{47} + 4u^{46} + \dots + u + 11)$ |
| c_5 | $(u^{18} + u^{17} + \dots - 2u + 1)(u^{47} + 8u^{46} + \dots + 151u + 149)$ |
| c_6 | $(u^{18} + 7u^{16} + \dots - 3u + 1)(u^{47} + u^{46} + \dots + 368u - 103)$ |
| c_7 | $(u^{18} + u^{17} + \dots - 5u^2 + 1)(u^{47} + 2u^{46} + \dots - 315u + 731)$ |
| c_8 | $(u^{18} + 5u^{17} + \dots + 4u + 1)(u^{47} - 4u^{45} + \dots + 23u + 3)$ |
| c_9 | $(u^{18} + 6u^{16} + \dots + u + 1)(u^{47} - u^{46} + \dots - 3782u + 667)$ |
| c_{10} | $(u^{18} + 7u^{16} + \dots + 3u + 1)(u^{47} + u^{46} + \dots + 368u - 103)$ |
| c_{11}, c_{12} | $(u^{18} + u^{17} + \dots + 4u + 1)(u^{47} + 4u^{46} + \dots + u + 11)$ |

IV. Riley Polynomials

| Crossings | Riley Polynomials at each crossing |
|-----------------------|--|
| c_1 | $(y^{18} - 19y^{17} + \dots + 6y + 1)$ $\cdot (y^{47} - 124y^{46} + \dots + 5168548507345y - 285541678321)$ |
| c_2, c_7 | $(y^{18} - 15y^{17} + \dots - 10y + 1)$ $\cdot (y^{47} - 56y^{46} + \dots + 13184125y - 534361)$ |
| c_3, c_9 | $(y^{18} + 12y^{17} + \dots + 11y + 1)(y^{47} - 9y^{46} + \dots + 9199640y - 444889)$ |
| c_4, c_{11}, c_{12} | $(y^{18} + 19y^{17} + \dots + 24y + 1)(y^{47} + 54y^{46} + \dots - 10053y - 121)$ |
| c_5 | $(y^{18} + 13y^{17} + \dots + 22y + 1)(y^{47} + 32y^{46} + \dots - 1091719y - 22201)$ |
| c_6, c_{10} | $(y^{18} + 14y^{17} + \dots + 15y + 1)(y^{47} + 5y^{46} + \dots + 92988y - 10609)$ |
| c_8 | $(y^{18} - 11y^{17} + \dots + 12y + 1)(y^{47} - 8y^{46} + \dots - 113y - 9)$ |