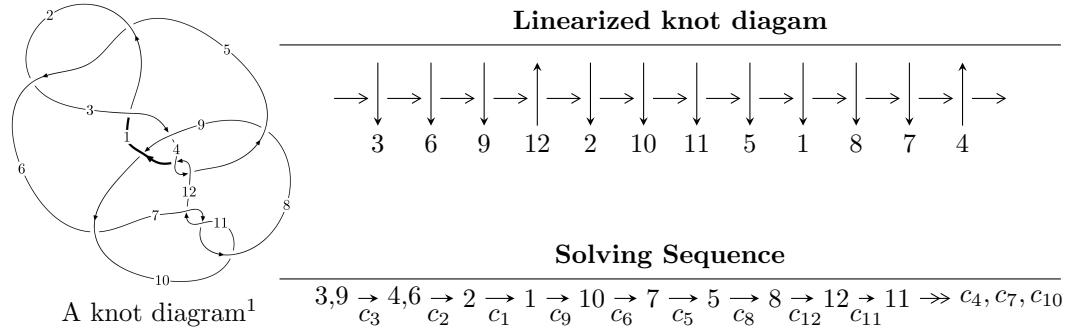


$12a_{0410}$ ($K12a_{0410}$)



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 4.25183 \times 10^{585} u^{103} - 3.49672 \times 10^{585} u^{102} + \dots + 8.74093 \times 10^{585} b + 3.71015 \times 10^{586}, \\ 6.16669 \times 10^{587} u^{103} - 4.95476 \times 10^{587} u^{102} + \dots + 8.74093 \times 10^{585} a + 3.40901 \times 10^{588}, u^{104} - u^{103} + \dots + \rangle$$

* 1 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 104 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.

$$\text{I. } I_1^u = \langle 4.25 \times 10^{585} u^{103} - 3.50 \times 10^{585} u^{102} + \dots + 8.74 \times 10^{585} b + 3.71 \times 10^{586}, 6.17 \times 10^{587} u^{103} - 4.95 \times 10^{587} u^{102} + \dots + 8.74 \times 10^{585} a + 3.41 \times 10^{588}, u^{104} - u^{103} + \dots + 4u - 1 \rangle$$

(i) **Arc colorings**

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_4 &= \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -70.5495u^{103} + 56.6846u^{102} + \dots - 557.720u - 390.005 \\ -0.486427u^{103} + 0.400040u^{102} + \dots - 5.53020u - 4.24457 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -102.717u^{103} + 81.0025u^{102} + \dots - 543.733u - 496.837 \\ -1.37667u^{103} + 1.15211u^{102} + \dots - 9.54433u - 8.96963 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -104.094u^{103} + 82.1546u^{102} + \dots - 553.277u - 505.807 \\ -1.37667u^{103} + 1.15211u^{102} + \dots - 9.54433u - 8.96963 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -323.391u^{103} + 228.074u^{102} + \dots + 978.592u - 1309.82 \\ -15.2283u^{103} + 12.0817u^{102} + \dots + 0.583226u - 70.8551 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 203.528u^{103} - 157.623u^{102} + \dots - 787.570u + 388.116 \\ 9.83386u^{103} - 7.22442u^{102} + \dots + 26.3806u + 44.1586 \end{pmatrix} \\ a_5 &= \begin{pmatrix} 24.0836u^{103} - 18.0365u^{102} + \dots - 147.484u + 38.3478 \\ 2.09265u^{103} - 1.51733u^{102} + \dots + 0.457127u + 8.25296 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -250.120u^{103} + 167.113u^{102} + \dots + 1343.51u - 959.073 \\ -14.4955u^{103} + 11.4521u^{102} + \dots + 12.7671u - 66.7521 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} -106.712u^{103} + 84.1220u^{102} + \dots - 560.070u - 518.776 \\ -1.53073u^{103} + 1.27128u^{102} + \dots - 9.55960u - 9.62036 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} -195.042u^{103} + 137.460u^{102} + \dots - 980.891u - 659.152 \\ -5.95727u^{103} + 4.33298u^{102} + \dots + 14.3247u - 39.1433 \end{pmatrix} \end{aligned}$$

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

(iii) **Cusp Shapes** = $8.88084u^{103} - 5.44978u^{102} + \dots - 468.605u - 98.2415$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{104} + 43u^{103} + \cdots + 20u + 1$
c_2, c_5	$u^{104} + 7u^{103} + \cdots + 6u + 1$
c_3	$u^{104} - u^{103} + \cdots + 4u - 1$
c_4, c_{12}	$u^{104} + 7u^{103} + \cdots + 6u + 1$
c_6	$u^{104} + u^{103} + \cdots - 159742u - 10001$
c_7, c_{10}, c_{11}	$u^{104} - u^{103} + \cdots - 16u - 1$
c_8	$u^{104} + 5u^{103} + \cdots + 1611520u - 285184$
c_9	$u^{104} + 7u^{103} + \cdots + 14816u + 928$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{104} + 37y^{103} + \dots - 404y + 1$
c_2, c_5	$y^{104} - 43y^{103} + \dots - 20y + 1$
c_3	$y^{104} - 7y^{103} + \dots - 84y + 1$
c_4, c_{12}	$y^{104} + 73y^{103} + \dots - 20y + 1$
c_6	$y^{104} - 35y^{103} + \dots - 15905585468y + 100020001$
c_7, c_{10}, c_{11}	$y^{104} + 89y^{103} + \dots - 156y + 1$
c_8	$y^{104} - 199y^{103} + \dots - 3752188116992y + 81329913856$
c_9	$y^{104} + 145y^{103} + \dots - 51493888y + 861184$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.563363 + 0.821946I$		
$a = 0.444185 - 0.891149I$	$6.57214 - 6.48719I$	0
$b = -0.454391 + 0.989162I$		
$u = 0.563363 - 0.821946I$		
$a = 0.444185 + 0.891149I$	$6.57214 + 6.48719I$	0
$b = -0.454391 - 0.989162I$		
$u = -0.621126 + 0.769884I$		
$a = -0.56396 - 1.81731I$	$1.01084 + 5.03860I$	0
$b = -1.029360 + 0.485493I$		
$u = -0.621126 - 0.769884I$		
$a = -0.56396 + 1.81731I$	$1.01084 - 5.03860I$	0
$b = -1.029360 - 0.485493I$		
$u = 0.388922 + 0.904890I$		
$a = 0.596870 - 0.870016I$	$2.80919 + 0.07810I$	0
$b = -0.542166 + 0.717661I$		
$u = 0.388922 - 0.904890I$		
$a = 0.596870 + 0.870016I$	$2.80919 - 0.07810I$	0
$b = -0.542166 - 0.717661I$		
$u = 0.970515 + 0.147136I$		
$a = 0.875999 - 0.444927I$	$4.46398 + 2.11638I$	0
$b = 0.674437 + 0.541246I$		
$u = 0.970515 - 0.147136I$		
$a = 0.875999 + 0.444927I$	$4.46398 - 2.11638I$	0
$b = 0.674437 - 0.541246I$		
$u = -0.505334 + 0.804558I$		
$a = 0.453957 + 0.831515I$	$1.50309 + 3.13338I$	0
$b = -0.399937 - 0.890019I$		
$u = -0.505334 - 0.804558I$		
$a = 0.453957 - 0.831515I$	$1.50309 - 3.13338I$	0
$b = -0.399937 + 0.890019I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.825078 + 0.437544I$		
$a = 0.366274 - 0.209695I$	$-1.62694 + 3.28109I$	0
$b = 0.946141 - 0.486683I$		
$u = 0.825078 - 0.437544I$		
$a = 0.366274 + 0.209695I$	$-1.62694 - 3.28109I$	0
$b = 0.946141 + 0.486683I$		
$u = -0.960850 + 0.560302I$		
$a = 0.0740763 + 0.0415182I$	$3.58609 - 6.59895I$	0
$b = 0.959373 + 0.560649I$		
$u = -0.960850 - 0.560302I$		
$a = 0.0740763 - 0.0415182I$	$3.58609 + 6.59895I$	0
$b = 0.959373 - 0.560649I$		
$u = -0.808529 + 0.272807I$		
$a = -0.32342 - 2.08395I$	$1.61075 - 4.42335I$	0
$b = -0.530241 - 0.185700I$		
$u = -0.808529 - 0.272807I$		
$a = -0.32342 + 2.08395I$	$1.61075 + 4.42335I$	0
$b = -0.530241 + 0.185700I$		
$u = -0.717693 + 0.898837I$		
$a = -0.28560 - 1.56028I$	$1.24152 + 4.96360I$	0
$b = -1.060130 + 0.592917I$		
$u = -0.717693 - 0.898837I$		
$a = -0.28560 + 1.56028I$	$1.24152 - 4.96360I$	0
$b = -1.060130 - 0.592917I$		
$u = -0.520163 + 1.029420I$		
$a = 0.516539 + 0.934515I$	$8.89831 - 1.49693I$	0
$b = -0.693321 - 0.824652I$		
$u = -0.520163 - 1.029420I$		
$a = 0.516539 - 0.934515I$	$8.89831 + 1.49693I$	0
$b = -0.693321 + 0.824652I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.241022 + 0.772602I$		
$a = 0.79562 + 2.59697I$	$-2.08746 - 1.73740I$	0
$b = -0.901827 - 0.433942I$		
$u = 0.241022 - 0.772602I$		
$a = 0.79562 - 2.59697I$	$-2.08746 + 1.73740I$	0
$b = -0.901827 + 0.433942I$		
$u = 0.803988 + 0.896157I$		
$a = -0.25183 + 1.43561I$	$-0.70178 - 8.77355I$	0
$b = -1.138880 - 0.645059I$		
$u = 0.803988 - 0.896157I$		
$a = -0.25183 - 1.43561I$	$-0.70178 + 8.77355I$	0
$b = -1.138880 + 0.645059I$		
$u = 0.497385 + 0.621008I$		
$a = 0.078179 - 0.664644I$	$4.05431 - 1.11668I$	0
$b = 0.056824 + 0.865095I$		
$u = 0.497385 - 0.621008I$		
$a = 0.078179 + 0.664644I$	$4.05431 + 1.11668I$	0
$b = 0.056824 - 0.865095I$		
$u = -0.791300 + 0.046534I$		
$a = 0.815917 - 0.154042I$	$-0.902576 - 0.388396I$	0
$b = 0.796187 + 0.354222I$		
$u = -0.791300 - 0.046534I$		
$a = 0.815917 + 0.154042I$	$-0.902576 + 0.388396I$	0
$b = 0.796187 - 0.354222I$		
$u = -0.508719 + 0.607540I$		
$a = 0.182981 + 1.047660I$	$1.059970 - 0.844026I$	0
$b = 0.986634 + 0.373347I$		
$u = -0.508719 - 0.607540I$		
$a = 0.182981 - 1.047660I$	$1.059970 + 0.844026I$	0
$b = 0.986634 - 0.373347I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.928727 + 0.802627I$		
$a = -0.196145 + 1.138220I$	$-3.72257 + 0.98676I$	0
$b = -0.135690 - 0.300460I$		
$u = 0.928727 - 0.802627I$		
$a = -0.196145 - 1.138220I$	$-3.72257 - 0.98676I$	0
$b = -0.135690 + 0.300460I$		
$u = -0.075525 + 0.763689I$		
$a = 1.75244 - 1.84311I$	$2.01306 - 1.82511I$	0
$b = -0.840944 + 0.347075I$		
$u = -0.075525 - 0.763689I$		
$a = 1.75244 + 1.84311I$	$2.01306 + 1.82511I$	0
$b = -0.840944 - 0.347075I$		
$u = -0.830605 + 0.911793I$		
$a = -0.21117 - 1.42184I$	$4.41171 + 12.55190I$	0
$b = -1.156170 + 0.688727I$		
$u = -0.830605 - 0.911793I$		
$a = -0.21117 + 1.42184I$	$4.41171 - 12.55190I$	0
$b = -1.156170 - 0.688727I$		
$u = -0.548337 + 0.469959I$		
$a = -0.328853 + 1.044760I$	$2.07251 + 7.18772I$	$-6.8037 - 12.4590I$
$b = 0.515000 - 1.053110I$		
$u = -0.548337 - 0.469959I$		
$a = -0.328853 - 1.044760I$	$2.07251 - 7.18772I$	$-6.8037 + 12.4590I$
$b = 0.515000 + 1.053110I$		
$u = 1.108980 + 0.641111I$		
$a = -0.333073 + 0.138039I$	$-4.80953 - 10.09280I$	0
$b = -1.285360 - 0.021076I$		
$u = 1.108980 - 0.641111I$		
$a = -0.333073 - 0.138039I$	$-4.80953 + 10.09280I$	0
$b = -1.285360 + 0.021076I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.773737 + 1.036650I$		
$a = -0.14378 + 1.50023I$	$7.99891 - 4.19713I$	0
$b = -0.982973 - 0.702090I$		
$u = 0.773737 - 1.036650I$		
$a = -0.14378 - 1.50023I$	$7.99891 + 4.19713I$	0
$b = -0.982973 + 0.702090I$		
$u = -1.154320 + 0.625941I$		
$a = -0.329904 - 0.003143I$	$-9.49573 + 5.97236I$	0
$b = -1.250860 - 0.033111I$		
$u = -1.154320 - 0.625941I$		
$a = -0.329904 + 0.003143I$	$-9.49573 - 5.97236I$	0
$b = -1.250860 + 0.033111I$		
$u = 0.679111$		
$a = 0.284649$	-4.78114	-21.9600
$b = 1.33147$		
$u = -0.678215 + 0.013252I$		
$a = 0.237565 + 0.197940I$	$-0.85837 + 3.39314I$	$-16.6981 - 3.5212I$
$b = 1.364900 - 0.142720I$		
$u = -0.678215 - 0.013252I$		
$a = 0.237565 - 0.197940I$	$-0.85837 - 3.39314I$	$-16.6981 + 3.5212I$
$b = 1.364900 + 0.142720I$		
$u = 0.514461 + 0.432962I$		
$a = -0.475888 - 1.078040I$	$-2.47422 - 3.90065I$	$-12.9937 + 12.0198I$
$b = 0.607901 + 0.957836I$		
$u = 0.514461 - 0.432962I$		
$a = -0.475888 + 1.078040I$	$-2.47422 + 3.90065I$	$-12.9937 - 12.0198I$
$b = 0.607901 - 0.957836I$		
$u = -0.363724 + 0.562108I$		
$a = -0.699635 + 0.105819I$	$-0.67399 + 1.89363I$	$-4.47866 - 2.55693I$
$b = 0.448049 - 0.543530I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.363724 - 0.562108I$		
$a = -0.699635 - 0.105819I$	$-0.67399 - 1.89363I$	$-4.47866 + 2.55693I$
$b = 0.448049 + 0.543530I$		
$u = 0.546846 + 0.348271I$		
$a = 1.136730 + 0.190671I$	$3.28029 - 2.14163I$	$-5.02286 + 4.41654I$
$b = 0.104676 + 0.374668I$		
$u = 0.546846 - 0.348271I$		
$a = 1.136730 - 0.190671I$	$3.28029 + 2.14163I$	$-5.02286 - 4.41654I$
$b = 0.104676 - 0.374668I$		
$u = -0.528143 + 0.344252I$		
$a = -0.479136 + 1.328600I$	$0.934910 + 1.041190I$	$-10.52989 - 8.15027I$
$b = 0.815535 - 0.943051I$		
$u = -0.528143 - 0.344252I$		
$a = -0.479136 - 1.328600I$	$0.934910 - 1.041190I$	$-10.52989 + 8.15027I$
$b = 0.815535 + 0.943051I$		
$u = 1.233470 + 0.601611I$		
$a = -0.324632 - 0.186405I$	$-6.60481 - 1.68850I$	0
$b = -1.191290 + 0.103160I$		
$u = 1.233470 - 0.601611I$		
$a = -0.324632 + 0.186405I$	$-6.60481 + 1.68850I$	0
$b = -1.191290 - 0.103160I$		
$u = 0.616964 + 0.103413I$		
$a = 0.161187 - 1.006650I$	$-0.589345 + 0.680571I$	$-17.4751 + 1.3227I$
$b = 1.275880 + 0.605464I$		
$u = 0.616964 - 0.103413I$		
$a = 0.161187 + 1.006650I$	$-0.589345 - 0.680571I$	$-17.4751 - 1.3227I$
$b = 1.275880 - 0.605464I$		
$u = -0.868038 + 1.069790I$		
$a = -0.299836 - 0.985915I$	$-1.45640 + 3.06534I$	0
$b = 0.294814 + 0.475607I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.868038 - 1.069790I$		
$a = -0.299836 + 0.985915I$	$-1.45640 - 3.06534I$	0
$b = 0.294814 - 0.475607I$		
$u = 0.591931 + 0.186775I$		
$a = -0.090390 - 1.313950I$	$-0.19970 - 5.86738I$	$-15.9124 + 10.3490I$
$b = 1.17202 + 0.80496I$		
$u = 0.591931 - 0.186775I$		
$a = -0.090390 + 1.313950I$	$-0.19970 + 5.86738I$	$-15.9124 - 10.3490I$
$b = 1.17202 - 0.80496I$		
$u = -0.588394 + 0.142921I$		
$a = 0.082609 + 1.246190I$	$-4.36091 + 2.54856I$	$-22.8255 - 6.6552I$
$b = 1.196880 - 0.701859I$		
$u = -0.588394 - 0.142921I$		
$a = 0.082609 - 1.246190I$	$-4.36091 - 2.54856I$	$-22.8255 + 6.6552I$
$b = 1.196880 + 0.701859I$		
$u = -1.04004 + 1.03217I$		
$a = -0.551356 - 0.879784I$	$1.92360 + 12.58100I$	0
$b = 0.490615 + 0.933211I$		
$u = -1.04004 - 1.03217I$		
$a = -0.551356 + 0.879784I$	$1.92360 - 12.58100I$	0
$b = 0.490615 - 0.933211I$		
$u = 1.03517 + 1.04171I$		
$a = -0.515586 + 0.900439I$	$-3.29144 - 8.47835I$	0
$b = 0.456752 - 0.891030I$		
$u = 1.03517 - 1.04171I$		
$a = -0.515586 - 0.900439I$	$-3.29144 + 8.47835I$	0
$b = 0.456752 + 0.891030I$		
$u = -1.02615 + 1.06514I$		
$a = -0.447832 - 0.911579I$	$-1.21263 + 4.04668I$	0
$b = 0.434256 + 0.795553I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.02615 - 1.06514I$		
$a = -0.447832 + 0.911579I$	$-1.21263 - 4.04668I$	0
$b = 0.434256 - 0.795553I$		
$u = -0.459257$		
$a = 1.01669$	-0.783430	-12.3850
$b = 0.220418$		
$u = 1.13472 + 1.07528I$		
$a = -0.374927 + 0.755335I$	$6.67772 - 3.43727I$	0
$b = 0.642091 - 0.737555I$		
$u = 1.13472 - 1.07528I$		
$a = -0.374927 - 0.755335I$	$6.67772 + 3.43727I$	0
$b = 0.642091 + 0.737555I$		
$u = -1.27994 + 0.93580I$		
$a = -0.228492 - 1.201280I$	$1.69291 - 4.76934I$	0
$b = -0.534879 + 0.497663I$		
$u = -1.27994 - 0.93580I$		
$a = -0.228492 + 1.201280I$	$1.69291 + 4.76934I$	0
$b = -0.534879 - 0.497663I$		
$u = 1.18881 + 1.11014I$		
$a = 0.22480 - 1.52647I$	$-0.0478 - 18.5019I$	0
$b = 1.132280 + 0.683492I$		
$u = 1.18881 - 1.11014I$		
$a = 0.22480 + 1.52647I$	$-0.0478 + 18.5019I$	0
$b = 1.132280 - 0.683492I$		
$u = -0.193816 + 0.301765I$		
$a = -4.2506 - 14.1470I$	$1.36741 + 4.74474I$	$4.6304 - 28.6080I$
$b = -0.911434 + 0.459625I$		
$u = -0.193816 - 0.301765I$		
$a = -4.2506 + 14.1470I$	$1.36741 - 4.74474I$	$4.6304 + 28.6080I$
$b = -0.911434 - 0.459625I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.12086 + 1.64891I$		
$a = -0.237789 - 1.104930I$	$-1.58816 + 3.67691I$	0
$b = 0.876849 + 0.233377I$		
$u = 0.12086 - 1.64891I$		
$a = -0.237789 + 1.104930I$	$-1.58816 - 3.67691I$	0
$b = 0.876849 - 0.233377I$		
$u = -1.20612 + 1.14721I$		
$a = 0.19311 + 1.49297I$	$-5.3218 + 14.1793I$	0
$b = 1.126050 - 0.656619I$		
$u = -1.20612 - 1.14721I$		
$a = 0.19311 - 1.49297I$	$-5.3218 - 14.1793I$	0
$b = 1.126050 + 0.656619I$		
$u = 0.318133 + 0.043089I$		
$a = 2.36401 - 4.12070I$	$-1.80006 - 2.05759I$	$-8.77434 + 2.54557I$
$b = 0.918651 + 0.537939I$		
$u = 0.318133 - 0.043089I$		
$a = 2.36401 + 4.12070I$	$-1.80006 + 2.05759I$	$-8.77434 - 2.54557I$
$b = 0.918651 - 0.537939I$		
$u = 1.25730 + 1.20177I$		
$a = 0.16715 - 1.42834I$	$-3.17569 - 9.37700I$	0
$b = 1.100520 + 0.623230I$		
$u = 1.25730 - 1.20177I$		
$a = 0.16715 + 1.42834I$	$-3.17569 + 9.37700I$	0
$b = 1.100520 - 0.623230I$		
$u = -0.172426 + 0.188300I$		
$a = 23.8746 - 18.6316I$	$1.38082 + 0.72027I$	$-1.7376 - 54.7659I$
$b = -0.847748 - 0.537795I$		
$u = -0.172426 - 0.188300I$		
$a = 23.8746 + 18.6316I$	$1.38082 - 0.72027I$	$-1.7376 + 54.7659I$
$b = -0.847748 + 0.537795I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.203979 + 0.019491I$		
$a = -24.7660 + 37.7640I$	$-2.71693 + 2.03390I$	$-94.2346 + 14.3841I$
$b = -0.843694 + 0.490511I$		
$u = 0.203979 - 0.019491I$		
$a = -24.7660 - 37.7640I$	$-2.71693 - 2.03390I$	$-94.2346 - 14.3841I$
$b = -0.843694 - 0.490511I$		
$u = -1.48989 + 1.04196I$		
$a = 0.292330 + 1.277470I$	$5.60690 + 8.72189I$	0
$b = 0.996033 - 0.647512I$		
$u = -1.48989 - 1.04196I$		
$a = 0.292330 - 1.277470I$	$5.60690 - 8.72189I$	0
$b = 0.996033 + 0.647512I$		
$u = 1.88590 + 0.28154I$		
$a = -0.246019 - 0.815284I$	$-4.50986 - 1.24814I$	0
$b = -0.912559 + 0.304758I$		
$u = 1.88590 - 0.28154I$		
$a = -0.246019 + 0.815284I$	$-4.50986 + 1.24814I$	0
$b = -0.912559 - 0.304758I$		
$u = 1.46046 + 1.60505I$		
$a = 0.155240 - 0.823314I$	$0.38251 + 9.17605I$	0
$b = -0.998169 + 0.552449I$		
$u = 1.46046 - 1.60505I$		
$a = 0.155240 + 0.823314I$	$0.38251 - 9.17605I$	0
$b = -0.998169 - 0.552449I$		
$u = 1.43763 + 1.70063I$		
$a = 0.040194 - 1.224600I$	$-3.17734 - 7.04580I$	0
$b = 1.007560 + 0.505269I$		
$u = 1.43763 - 1.70063I$		
$a = 0.040194 + 1.224600I$	$-3.17734 + 7.04580I$	0
$b = 1.007560 - 0.505269I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.76981 + 2.17891I$		
$a = -0.095447 + 1.148870I$	$-5.87156 + 1.43086I$	0
$b = 0.952498 - 0.398631I$		
$u = -0.76981 - 2.17891I$		
$a = -0.095447 - 1.148870I$	$-5.87156 - 1.43086I$	0
$b = 0.952498 + 0.398631I$		
$u = -2.01108 + 1.27353I$		
$a = 0.018017 + 0.800933I$	$-5.42846 - 4.28254I$	0
$b = -0.983353 - 0.460952I$		
$u = -2.01108 - 1.27353I$		
$a = 0.018017 - 0.800933I$	$-5.42846 + 4.28254I$	0
$b = -0.983353 + 0.460952I$		

II. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$u^{104} + 43u^{103} + \cdots + 20u + 1$
c_2, c_5	$u^{104} + 7u^{103} + \cdots + 6u + 1$
c_3	$u^{104} - u^{103} + \cdots + 4u - 1$
c_4, c_{12}	$u^{104} + 7u^{103} + \cdots + 6u + 1$
c_6	$u^{104} + u^{103} + \cdots - 159742u - 10001$
c_7, c_{10}, c_{11}	$u^{104} - u^{103} + \cdots - 16u - 1$
c_8	$u^{104} + 5u^{103} + \cdots + 1611520u - 285184$
c_9	$u^{104} + 7u^{103} + \cdots + 14816u + 928$

III. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$y^{104} + 37y^{103} + \cdots - 404y + 1$
c_2, c_5	$y^{104} - 43y^{103} + \cdots - 20y + 1$
c_3	$y^{104} - 7y^{103} + \cdots - 84y + 1$
c_4, c_{12}	$y^{104} + 73y^{103} + \cdots - 20y + 1$
c_6	$y^{104} - 35y^{103} + \cdots - 15905585468y + 100020001$
c_7, c_{10}, c_{11}	$y^{104} + 89y^{103} + \cdots - 156y + 1$
c_8	$y^{104} - 199y^{103} + \cdots - 3752188116992y + 81329913856$
c_9	$y^{104} + 145y^{103} + \cdots - 51493888y + 861184$