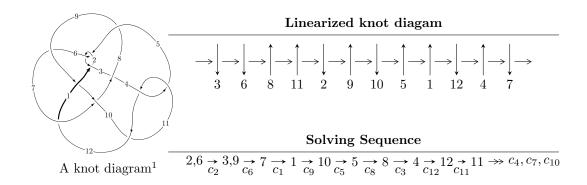
$12a_{0316} \ (K12a_{0316})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 6.27132 \times 10^{469} u^{176} + 1.45967 \times 10^{471} u^{175} + \dots + 6.67248 \times 10^{470} b + 1.46517 \times 10^{471}, \\ &\quad 4.71016 \times 10^{471} u^{176} + 1.68292 \times 10^{472} u^{175} + \dots + 6.67248 \times 10^{470} a + 1.35006 \times 10^{472}, \\ &\quad u^{177} + 4 u^{176} + \dots + 10 u + 1 \rangle \\ I_2^u &= \langle 3206229 u^{36} - 851287 u^{35} + \dots + 53147 b - 2921496, \\ &\quad 3206229 u^{36} - 851287 u^{35} + \dots + 53147 a - 3134084, \ u^{37} + u^{36} + \dots + 2 u - 1 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 214 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.

I.
$$I_1^u = \langle 6.27 \times 10^{469} u^{176} + 1.46 \times 10^{471} u^{175} + \dots + 6.67 \times 10^{470} b + 1.47 \times 10^{471}, \ 4.71 \times 10^{471} u^{176} + 1.68 \times 10^{472} u^{175} + \dots + 6.67 \times 10^{470} a + 1.35 \times 10^{472}, \ u^{177} + 4u^{176} + \dots + 10u + 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -7.05907u^{176} - 25.2217u^{175} + \dots - 135.362u - 20.2332 \\ -0.0939879u^{176} - 2.18760u^{175} + \dots - 25.6168u - 2.19583 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -1.26084u^{176} - 3.18185u^{175} + \dots + 0.522136u + 4.94160 \\ -1.02841u^{176} - 2.49536u^{175} + \dots + 7.10073u + 1.76271 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -11.7961u^{176} - 40.9296u^{175} + \dots - 191.660u - 25.4602 \\ -4.25227u^{176} - 15.3984u^{175} + \dots - 63.4411u - 6.27080 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -10.8853u^{176} - 37.9312u^{175} + \dots - 176.659u - 25.0594 \\ -3.92024u^{176} - 14.8971u^{175} + \dots - 66.9138u - 7.02204 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 5.45380u^{176} + 22.5815u^{175} + \dots + 155.803u + 18.4036 \\ -3.53508u^{176} - 8.38983u^{175} + \dots - 20.8326u - 2.85652 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} -2.20492u^{176} - 9.94931u^{175} + \dots - 123.233u - 13.6295 \\ 3.43657u^{176} + 12.3261u^{175} + \dots + 48.1433u + 6.89118 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -14.5338u^{176} - 46.8491u^{175} + \dots - 189.484u - 18.3827 \\ -7.41726u^{176} - 23.1558u^{175} + \dots - 69.7149u - 6.96208 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-18.8317u^{176} 63.9674u^{175} + \cdots 313.568u 37.3249$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{177} + 80u^{176} + \dots + 34u + 1$
c_2, c_5	$u^{177} + 4u^{176} + \dots + 10u + 1$
<i>c</i> ₃	$u^{177} + u^{176} + \dots + 220952u - 6793$
c_4,c_{11}	$u^{177} + 36u^{175} + \dots - 195u + 59$
<i>C</i> ₆	$u^{177} - 17u^{176} + \dots - 962894u + 202189$
<i>C</i> ₇	$u^{177} + 8u^{176} + \dots + 79u - 1$
<i>c</i> ₈	$u^{177} + u^{176} + \dots - 377547059u - 63518701$
c_9	$u^{177} + 18u^{176} + \dots - 5792u - 523$
c_{10}	$u^{177} + 72u^{176} + \dots - 103103u - 3481$
c_{12}	$u^{177} + 5u^{176} + \dots + 895865u - 154903$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{177} + 44y^{176} + \dots - 2218y - 1$
c_2,c_5	$y^{177} - 80y^{176} + \dots + 34y - 1$
<i>c</i> ₃	$y^{177} - 17y^{176} + \dots + 37538868580y - 46144849$
c_4, c_{11}	$y^{177} + 72y^{176} + \dots - 103103y - 3481$
<i>c</i> ₆	$y^{177} - 27y^{176} + \dots - 44453979886y - 40880391721$
<i>C</i> ₇	$y^{177} + 12y^{176} + \dots + 549y - 1$
C ₈	$y^{177} - 37y^{176} + \dots + 270860312130815791y - 4034625376727401$
<i>C</i> 9	$y^{177} + 8y^{176} + \dots - 28982616y - 273529$
c_{10}	$y^{177} + 72y^{176} + \dots - 1149837415y - 12117361$
c_{12}	$y^{177} + 31y^{176} + \dots - 1661817074137y - 23994939409$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.864110 + 0.503380I		
a = 1.64210 - 0.28849I	3.02236 + 0.80080I	0
b = 0.453580 + 0.130110I		
u = 0.864110 - 0.503380I		
a = 1.64210 + 0.28849I	3.02236 - 0.80080I	0
b = 0.453580 - 0.130110I		
u = 0.854454 + 0.530174I		
a = 0.581132 - 1.206900I	3.02605 - 4.97258I	0
b = 1.18512 - 2.00320I		
u = 0.854454 - 0.530174I		
a = 0.581132 + 1.206900I	3.02605 + 4.97258I	0
b = 1.18512 + 2.00320I		
u = 0.628733 + 0.785612I		
a = -0.722882 + 0.572565I	6.22275 + 0.33470I	0
b = 0.538006 - 0.109119I		
u = 0.628733 - 0.785612I		
a = -0.722882 - 0.572565I	6.22275 - 0.33470I	0
b = 0.538006 + 0.109119I		
u = -0.995131 + 0.150101I		
a = -0.730128 + 0.587590I	0.137829 + 1.011590I	0
b = -1.69476 + 1.26240I		
u = -0.995131 - 0.150101I		
a = -0.730128 - 0.587590I	0.137829 - 1.011590I	0
b = -1.69476 - 1.26240I		
u = 0.429828 + 0.910229I		
a = -1.26729 + 0.89068I	5.31765 + 9.00835I	0
b = -0.0504466 + 0.0116262I		
u = 0.429828 - 0.910229I		
a = -1.26729 - 0.89068I	5.31765 - 9.00835I	0
b = -0.0504466 - 0.0116262I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.431978 + 0.909727I		
a = 1.099430 + 0.678193I	-1.84822 - 7.07977I	0
b = -0.0703223 + 0.1208490I		
u = -0.431978 - 0.909727I		
a = 1.099430 - 0.678193I	-1.84822 + 7.07977I	0
b = -0.0703223 - 0.1208490I		
u = -0.430940 + 0.912090I		
a = 1.35273 + 0.84882I	3.6105 - 15.0225I	0
b = 0.0209828 - 0.0429838I		
u = -0.430940 - 0.912090I		
a = 1.35273 - 0.84882I	3.6105 + 15.0225I	0
b = 0.0209828 + 0.0429838I		
u = -0.689258 + 0.741416I		
a = -1.51421 - 0.54650I	4.35698 + 0.21526I	0
b = -0.990121 - 0.092074I		
u = -0.689258 - 0.741416I		
a = -1.51421 + 0.54650I	4.35698 - 0.21526I	0
b = -0.990121 + 0.092074I		
u = -0.983063 + 0.244776I		
a = 0.086827 - 0.874000I	-3.69375 + 1.07233I	0
b = -0.92991 - 1.40928I		
u = -0.983063 - 0.244776I		
a = 0.086827 + 0.874000I	-3.69375 - 1.07233I	0
b = -0.92991 + 1.40928I		
u = 0.556234 + 0.847392I		
a = 1.232020 - 0.344639I	2.34667 + 1.51020I	0
b = 0.306913 + 0.299878I		
u = 0.556234 - 0.847392I		
a = 1.232020 + 0.344639I	2.34667 - 1.51020I	0
b = 0.306913 - 0.299878I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
3.39876 - 0.49100I	0
3.39876 + 0.49100I	0
3.20866 + 4.81840I	0
3.20866 - 4.81840I	0
4.16997 + 4.65462I	0
4.16997 - 4.65462I	0
-0.10196 + 3.78125I	0
-0.10196 - 3.78125I	0
4.35149 + 3.60655I	0
4.35149 - 3.60655I	0
	3.39876 - 0.49100I $3.39876 + 0.49100I$ $3.20866 + 4.81840I$ $4.16997 + 4.65462I$ $-0.10196 + 3.78125I$ $-0.10196 - 3.78125I$ $4.35149 + 3.60655I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.993594 + 0.291384I		
a = 0.844216 + 0.946999I	-1.66504 + 0.52353I	0
b = 0.93027 + 2.29117I		
u = 0.993594 - 0.291384I		
a = 0.844216 - 0.946999I	-1.66504 - 0.52353I	0
b = 0.93027 - 2.29117I		
u = 0.895649 + 0.357166I		
a = 1.025610 + 0.918358I	-1.23431 + 0.87708I	0
b = 0.45506 + 1.74939I		
u = 0.895649 - 0.357166I		
a = 1.025610 - 0.918358I	-1.23431 - 0.87708I	0
b = 0.45506 - 1.74939I		
u = -0.605031 + 0.748752I		
a = 0.843894 + 0.498704I	4.30109 - 6.39022I	0
b = -0.709249 - 0.239796I		
u = -0.605031 - 0.748752I		
a = 0.843894 - 0.498704I	4.30109 + 6.39022I	0
b = -0.709249 + 0.239796I		
u = 0.966875 + 0.380234I		
a = -0.52633 + 1.66575I	-2.02402 + 4.85256I	0
b = 0.39230 + 2.53238I		
u = 0.966875 - 0.380234I		
a = -0.52633 - 1.66575I	-2.02402 - 4.85256I	0
b = 0.39230 - 2.53238I		
u = -0.969471 + 0.379442I		
a = 0.287010 + 1.361120I	-0.854958 + 0.471035I	0
b = -0.58379 + 2.08508I		
u = -0.969471 - 0.379442I		
a = 0.287010 - 1.361120I	-0.854958 - 0.471035I	0
b = -0.58379 - 2.08508I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.334151 + 0.990251I		
a = -0.463534 - 0.392409I	-0.814141 + 0.510005I	0
b = -0.004647 + 0.230446I		
u = -0.334151 - 0.990251I		
a = -0.463534 + 0.392409I	-0.814141 - 0.510005I	0
b = -0.004647 - 0.230446I		
u = 0.981019 + 0.368545I		
a = -1.02461 + 0.98094I	-6.14172 - 1.19459I	0
b = -0.46481 + 1.88356I		
u = 0.981019 - 0.368545I		
a = -1.02461 - 0.98094I	-6.14172 + 1.19459I	0
b = -0.46481 - 1.88356I		
u = -0.954229 + 0.434373I		
a = -0.738335 + 0.615680I	-4.50486 + 1.86213I	0
b = 0.40593 + 2.03400I		
u = -0.954229 - 0.434373I		
a = -0.738335 - 0.615680I	-4.50486 - 1.86213I	0
b = 0.40593 - 2.03400I		
u = 0.482512 + 0.810071I		
a = 1.120650 - 0.605325I	2.43714 + 1.63530I	0
b = 0.180308 + 0.169055I		
u = 0.482512 - 0.810071I		-
a = 1.120650 + 0.605325I	2.43714 - 1.63530I	0
b = 0.180308 - 0.169055I		
u = 0.968611 + 0.427868I		
a = -0.466538 - 0.976942I	-1.71516 - 3.91586I	0
b = 0.23731 - 1.57700I		
u = 0.968611 - 0.427868I		
a = -0.466538 + 0.976942I	-1.71516 + 3.91586I	0
b = 0.23731 + 1.57700I		

$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
-2.82839 - 4.64321I	0
-2.82839 + 4.64321I	0
-4.20211 - 3.46738I	0
-4.20211 + 3.46738I	0
1.03900 - 5.79820I	0
1.03900 + 5.79820I	0
-1.59398 + 1.86715I	0
-1.59398 - 1.86715I	0
-0.33435 + 2.65275I	0
-0.33435 - 2.65275I	0
	-2.82839 - 4.64321I $-2.82839 + 4.64321I$ $-4.20211 - 3.46738I$ $-4.20211 + 3.46738I$ $1.03900 - 5.79820I$ $1.03900 + 5.79820I$ $-1.59398 + 1.86715I$ $-1.59398 - 1.86715I$ $-0.33435 + 2.65275I$

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.641662 + 0.873189I		
a = -0.467333 + 0.778610I	6.61970 - 4.57530I	0
b = 0.0584398 - 0.0639245I		
u = 0.641662 - 0.873189I		
a = -0.467333 - 0.778610I	6.61970 + 4.57530I	0
b = 0.0584398 + 0.0639245I		
u = 0.976335 + 0.497172I		
a = -1.08695 - 1.54329I	-0.15175 - 5.18017I	0
b = -0.69036 - 2.42165I		
u = 0.976335 - 0.497172I		
a = -1.08695 + 1.54329I	-0.15175 + 5.18017I	0
b = -0.69036 + 2.42165I		
u = -0.643816 + 0.892856I		
a = 0.394328 + 0.823883I	4.88923 + 10.48330I	0
b = 0.0398039 - 0.0652166I		
u = -0.643816 - 0.892856I		
a = 0.394328 - 0.823883I	4.88923 - 10.48330I	0
b = 0.0398039 + 0.0652166I		
u = -0.984038 + 0.507492I		
a = 1.39816 - 1.54570I	-1.20216 + 10.51620I	0
b = 1.12239 - 2.46986I		
u = -0.984038 - 0.507492I		
a = 1.39816 + 1.54570I	-1.20216 - 10.51620I	0
b = 1.12239 + 2.46986I		
u = 1.074180 + 0.314145I		
a = -1.187290 + 0.107309I	-1.71410 - 6.86279I	0
b = -1.30256 + 0.80314I		
u = 1.074180 - 0.314145I		
a = -1.187290 - 0.107309I	-1.71410 + 6.86279I	0
b = -1.30256 - 0.80314I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.986129 + 0.529695I		
a = -0.446989 - 0.969513I	0.06124 + 6.22009I	0
b = 0.45388 - 2.03741I		
u = -0.986129 - 0.529695I		
a = -0.446989 + 0.969513I	0.06124 - 6.22009I	0
b = 0.45388 + 2.03741I		
u = 0.766407 + 0.418178I		
a = 0.318503 - 0.142059I	-3.49282 - 0.33241I	0
b = -0.02476 - 2.36651I		
u = 0.766407 - 0.418178I		
a = 0.318503 + 0.142059I	-3.49282 + 0.33241I	0
b = -0.02476 + 2.36651I		
u = 1.013210 + 0.498461I		
a = 0.181595 - 0.942807I	-1.94333 - 10.80760I	0
b = -0.88594 - 2.57967I		
u = 1.013210 - 0.498461I		
a = 0.181595 + 0.942807I	-1.94333 + 10.80760I	0
b = -0.88594 + 2.57967I		
u = -0.203869 + 0.844369I		
a = 0.240509 + 1.358190I	2.35834 + 3.63220I	0
b = 0.129274 + 0.558191I		
u = -0.203869 - 0.844369I		
a = 0.240509 - 1.358190I	2.35834 - 3.63220I	0
b = 0.129274 - 0.558191I		
u = -1.020510 + 0.488503I		
a = 1.28197 - 0.78165I	-5.32571 + 4.91021I	0
b = 1.10918 - 1.32805I		
u = -1.020510 - 0.488503I		
a = 1.28197 + 0.78165I	-5.32571 - 4.91021I	0
b = 1.10918 + 1.32805I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.454584 + 0.720457I		
a = 1.76325 - 0.93699I	4.72116 + 0.61300I	0
b = 0.0092184 + 0.1017300I		
u = 0.454584 - 0.720457I		
a = 1.76325 + 0.93699I	4.72116 - 0.61300I	0
b = 0.0092184 - 0.1017300I		
u = -1.107280 + 0.360761I		
a = -0.046154 - 0.532157I	-2.80776 + 5.90177I	0
b = -1.35787 - 0.75946I		
u = -1.107280 - 0.360761I		
a = -0.046154 + 0.532157I	-2.80776 - 5.90177I	0
b = -1.35787 + 0.75946I		
u = -0.443082 + 0.704654I		
a = -1.89935 - 0.78762I	4.33274 - 5.54339I	0
b = 0.0903060 + 0.0571122I		
u = -0.443082 - 0.704654I		
a = -1.89935 + 0.78762I	4.33274 + 5.54339I	0
b = 0.0903060 - 0.0571122I		
u = -0.972572 + 0.650132I		
a = -0.57392 - 1.55176I	3.48309 + 5.08902I	0
b = -0.79279 - 1.91590I		
u = -0.972572 - 0.650132I		
a = -0.57392 + 1.55176I	3.48309 - 5.08902I	0
b = -0.79279 + 1.91590I		
u = 1.071370 + 0.472682I		
a = -0.125573 + 0.151807I	-2.42037 - 5.73814I	0
b = 0.754288 + 0.695071I		
u = 1.071370 - 0.472682I		
a = -0.125573 - 0.151807I	-2.42037 + 5.73814I	0
b = 0.754288 - 0.695071I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.727816 + 0.388140I		
a = 1.46503 + 1.79064I	0.80530 + 1.36238I	0
b = 0.71399 + 1.66257I		
u = 0.727816 - 0.388140I		
a = 1.46503 - 1.79064I	0.80530 - 1.36238I	0
b = 0.71399 - 1.66257I		
u = -1.034940 + 0.566622I		
a = -0.385371 - 1.274380I	0.18035 + 6.67560I	0
b = -0.26876 - 2.61647I		
u = -1.034940 - 0.566622I		
a = -0.385371 + 1.274380I	0.18035 - 6.67560I	0
b = -0.26876 + 2.61647I		
u = 1.110490 + 0.400960I		
a = 0.047678 - 0.338435I	-2.57340 - 1.75170I	0
b = 1.338290 - 0.291718I		
u = 1.110490 - 0.400960I		
a = 0.047678 + 0.338435I	-2.57340 + 1.75170I	0
b = 1.338290 + 0.291718I		
u = -0.539683 + 0.613755I		
a = -1.52577 - 0.32011I	1.66757 - 1.98030I	0
b = -0.093355 - 0.463207I		
u = -0.539683 - 0.613755I		
a = -1.52577 + 0.32011I	1.66757 + 1.98030I	0
b = -0.093355 + 0.463207I		
u = -0.962996 + 0.686956I		
a = 0.305789 + 0.479406I	-1.20390 + 2.99860I	0
b = 0.09079 + 1.45512I		
u = -0.962996 - 0.686956I		
a = 0.305789 - 0.479406I	-1.20390 - 2.99860I	0
b = 0.09079 - 1.45512I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.991259 + 0.667775I		
a = 0.44316 - 1.57914I	3.18592 - 10.11620I	0
b = 0.84090 - 2.04373I		
u = 0.991259 - 0.667775I		
a = 0.44316 + 1.57914I	3.18592 + 10.11620I	0
b = 0.84090 + 2.04373I		
u = 1.197360 + 0.034337I		
a = -0.093939 - 0.740294I	-5.70441 - 3.92320I	0
b = 0.29093 - 1.49255I		
u = 1.197360 - 0.034337I		
a = -0.093939 + 0.740294I	-5.70441 + 3.92320I	0
b = 0.29093 + 1.49255I		
u = 0.431035 + 0.673409I		
a = 0.89934 - 1.58988I	4.73101 + 1.60483I	0
b = 0.0987438 - 0.0201630I		
u = 0.431035 - 0.673409I		
a = 0.89934 + 1.58988I	4.73101 - 1.60483I	0
b = 0.0987438 + 0.0201630I		
u = -1.016480 + 0.639805I		
a = 0.261850 + 0.617497I	3.05948 + 11.67370I	0
b = 0.96848 + 2.09567I		
u = -1.016480 - 0.639805I		
a = 0.261850 - 0.617497I	3.05948 - 11.67370I	0
b = 0.96848 - 2.09567I		
u = 1.009950 + 0.661821I		
a = -0.304566 + 0.574109I	5.06254 - 5.78643I	0
b = -0.88678 + 1.82908I		
u = 1.009950 - 0.661821I		
a = -0.304566 - 0.574109I	5.06254 + 5.78643I	0
b = -0.88678 - 1.82908I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.207770 + 0.111088I		
a = -0.090639 + 0.505906I	-3.11096 + 0.52478I	0
b = -0.501734 + 0.876122I		
u = -1.207770 - 0.111088I		
a = -0.090639 - 0.505906I	-3.11096 - 0.52478I	0
b = -0.501734 - 0.876122I		
u = -0.677011 + 0.401193I		
a = -1.33922 + 2.14785I	-0.12774 - 6.56719I	0
b = -0.58887 + 1.74981I		
u = -0.677011 - 0.401193I		
a = -1.33922 - 2.14785I	-0.12774 + 6.56719I	0
b = -0.58887 - 1.74981I		
u = -1.150310 + 0.396663I		
a = 1.029900 + 0.068782I	-1.008840 + 0.956640I	0
b = 1.172760 + 0.368957I		
u = -1.150310 - 0.396663I		
a = 1.029900 - 0.068782I	-1.008840 - 0.956640I	0
b = 1.172760 - 0.368957I		
u = -1.109510 + 0.509073I		
a = -1.019910 - 0.403265I	2.34998 + 0.86622I	0
b = -1.93314 - 0.84218I		
u = -1.109510 - 0.509073I		
a = -1.019910 + 0.403265I	2.34998 - 0.86622I	0
b = -1.93314 + 0.84218I		
u = -1.073630 + 0.583236I		
a = -0.48076 - 1.47320I	2.48677 + 10.50110I	0
b = -1.05647 - 3.04806I		
u = -1.073630 - 0.583236I		
a = -0.48076 + 1.47320I	2.48677 - 10.50110I	0
b = -1.05647 + 3.04806I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.073520 + 0.590068I		
a = 0.57156 - 1.43360I	2.89891 - 5.63480I	0
b = 1.27331 - 2.83184I		
u = 1.073520 - 0.590068I		
a = 0.57156 + 1.43360I	2.89891 + 5.63480I	0
b = 1.27331 + 2.83184I		
u = 0.024001 + 0.773556I		
a = -0.066380 - 0.835843I	0.75664 - 2.18053I	0
b = 0.053002 + 0.763647I		
u = 0.024001 - 0.773556I		
a = -0.066380 + 0.835843I	0.75664 + 2.18053I	0
b = 0.053002 - 0.763647I		
u = 1.101540 + 0.546410I		
a = 0.948856 - 0.721075I	2.72588 - 6.34808I	0
b = 1.84526 - 1.34491I		
u = 1.101540 - 0.546410I		
a = 0.948856 + 0.721075I	2.72588 + 6.34808I	0
b = 1.84526 + 1.34491I		
u = 1.005390 + 0.736212I		
a = -0.387763 + 0.458302I	5.51961 - 1.34491I	0
b = -0.885025 + 1.008260I		
u = 1.005390 - 0.736212I		
a = -0.387763 - 0.458302I	5.51961 + 1.34491I	0
b = -0.885025 - 1.008260I		
u = -0.424100 + 0.619781I		
a = -0.64402 - 1.80029I	4.41349 + 3.59625I	0
b = -0.0115646 - 0.1115990I		
u = -0.424100 - 0.619781I		
a = -0.64402 + 1.80029I	4.41349 - 3.59625I	0
b = -0.0115646 + 0.1115990I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.074910 + 0.639175I		
a = 0.341936 - 1.209870I	0.67305 - 7.06965I	0
b = 0.83361 - 2.09047I		
u = 1.074910 - 0.639175I		
a = 0.341936 + 1.209870I	0.67305 + 7.06965I	0
b = 0.83361 + 2.09047I		
u = -0.605691 + 0.429434I		
a = -1.013900 + 0.183837I	1.24190 - 2.04817I	0
b = 0.268895 - 1.187210I		
u = -0.605691 - 0.429434I		
a = -1.013900 - 0.183837I	1.24190 + 2.04817I	0
b = 0.268895 + 1.187210I		
u = -0.420295 + 0.607847I		
a = 0.347418 + 0.023155I	-0.33857 + 2.05259I	0
b = -0.288468 + 0.446331I		
u = -0.420295 - 0.607847I		
a = 0.347418 - 0.023155I	-0.33857 - 2.05259I	0
b = -0.288468 - 0.446331I		
u = -1.011310 + 0.768024I		
a = 0.400895 + 0.407280I	3.78542 - 4.41512I	0
b = 0.910707 + 0.754369I		
u = -1.011310 - 0.768024I		
a = 0.400895 - 0.407280I	3.78542 + 4.41512I	0
b = 0.910707 - 0.754369I		
u = 1.096560 + 0.658026I		
a = 0.218148 - 1.118640I	0.66481 - 7.12625I	0
b = 0.72364 - 1.97180I		
u = 1.096560 - 0.658026I		
a = 0.218148 + 1.118640I	0.66481 + 7.12625I	0
b = 0.72364 + 1.97180I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.284110 + 0.075213I		
a = -0.738730 - 0.622086I	-2.54229 + 12.16080I	0
b = -1.53908 - 1.23636I		
u = 1.284110 - 0.075213I		
a = -0.738730 + 0.622086I	-2.54229 - 12.16080I	0
b = -1.53908 + 1.23636I		
u = -1.286570 + 0.081808I		
a = 0.728086 - 0.552802I	-0.81096 - 6.12839I	0
b = 1.46142 - 1.03823I		
u = -1.286570 - 0.081808I		
a = 0.728086 + 0.552802I	-0.81096 + 6.12839I	0
b = 1.46142 + 1.03823I		
u = 1.297720 + 0.059431I		
a = -0.493257 - 0.564008I	-8.06045 + 4.22049I	0
b = -0.81964 - 1.16945I		
u = 1.297720 - 0.059431I		
a = -0.493257 + 0.564008I	-8.06045 - 4.22049I	0
b = -0.81964 + 1.16945I		
u = 0.151448 + 0.677292I		
a = -0.239174 - 0.493385I	0.11157 + 1.61027I	0
b = 0.217102 + 0.555784I		
u = 0.151448 - 0.677292I		
a = -0.239174 + 0.493385I	0.11157 - 1.61027I	0
b = 0.217102 - 0.555784I		
u = 0.634491 + 0.258463I		
a = 0.490582 + 0.774572I	-0.49221 + 7.04072I	0
b = -0.94373 - 1.29655I		
u = 0.634491 - 0.258463I		
a = 0.490582 - 0.774572I	-0.49221 - 7.04072I	0
b = -0.94373 + 1.29655I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -1.141400 + 0.654698I		
a = 0.447744 + 1.042120I	-4.00208 + 12.81910I	0
b = 0.75561 + 2.17552I		
u = -1.141400 - 0.654698I		
a = 0.447744 - 1.042120I	-4.00208 - 12.81910I	0
b = 0.75561 - 2.17552I		
u = -1.121680 + 0.690184I		
a = 0.001403 - 1.019600I	-0.80122 + 11.75970I	0
b = -0.44730 - 1.90854I		
u = -1.121680 - 0.690184I		
a = 0.001403 + 1.019600I	-0.80122 - 11.75970I	0
b = -0.44730 + 1.90854I		
u = 1.144430 + 0.654477I		
a = -0.578454 + 1.185600I	3.1470 - 14.7517I	0
b = -1.13850 + 2.31125I		
u = 1.144430 - 0.654477I		
a = -0.578454 - 1.185600I	3.1470 + 14.7517I	0
b = -1.13850 - 2.31125I		
u = -1.144850 + 0.654743I		
a = 0.536120 + 1.244750I	1.4395 + 20.7720I	0
b = 1.12267 + 2.46028I		
u = -1.144850 - 0.654743I		
a = 0.536120 - 1.244750I	1.4395 - 20.7720I	0
b = 1.12267 - 2.46028I		
u = -1.079060 + 0.765489I		
a = 0.424703 + 0.553267I	-1.20942 + 3.19236I	0
b = 0.217950 + 1.188930I		
u = -1.079060 - 0.765489I		
a = 0.424703 - 0.553267I	-1.20942 - 3.19236I	0
b = 0.217950 - 1.188930I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.152480 + 0.666884I		
a = -0.610038 + 0.838081I	2.11726 - 9.47807I	0
b = -0.88187 + 1.63953I		
u = 1.152480 - 0.666884I		
a = -0.610038 - 0.838081I	2.11726 + 9.47807I	0
b = -0.88187 - 1.63953I		
u = -1.180110 + 0.641705I		
a = -0.191105 - 0.663740I	-3.39163 + 5.32315I	0
b = -0.61236 - 1.34118I		
u = -1.180110 - 0.641705I		
a = -0.191105 + 0.663740I	-3.39163 - 5.32315I	0
b = -0.61236 + 1.34118I		
u = -0.648881 + 0.036092I		
a = 0.11541 - 1.59230I	-3.52867 + 1.18563I	-6.52505 - 2.33894I
b = -0.84150 - 1.29069I		
u = -0.648881 - 0.036092I		
a = 0.11541 + 1.59230I	-3.52867 - 1.18563I	-6.52505 + 2.33894I
b = -0.84150 + 1.29069I		
u = -1.47300		
a = 0.469279	-2.50835	0
b = 0.634655		
u = 1.47889 + 0.22589I		
a = 0.0556634 + 0.0919355I	-7.07013 - 4.74190I	0
b = 0.287495 + 0.108538I		
u = 1.47889 - 0.22589I		
a = 0.0556634 - 0.0919355I	-7.07013 + 4.74190I	0
b = 0.287495 - 0.108538I		
u = -0.071219 + 0.453256I		
a = 0.721477 - 0.736546I	0.427761 + 1.172730I	3.97072 - 6.15691I
b = 0.251352 + 0.377983I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.071219 - 0.453256I		
a = 0.721477 + 0.736546I	0.427761 - 1.172730I	3.97072 + 6.15691I
b = 0.251352 - 0.377983I		
u = -0.293825 + 0.308935I		
a = -0.95095 + 2.23466I	-3.60162 - 1.11181I	-5.69253 + 2.09546I
b = -0.316383 + 1.006490I		
u = -0.293825 - 0.308935I		
a = -0.95095 - 2.23466I	-3.60162 + 1.11181I	-5.69253 - 2.09546I
b = -0.316383 - 1.006490I		
u = -0.176507 + 0.105361I		
a = 1.79143 - 4.36130I	0.94655 + 2.13065I	3.53909 - 3.27688I
b = 0.718621 + 0.524057I		
u = -0.176507 - 0.105361I		
a = 1.79143 + 4.36130I	0.94655 - 2.13065I	3.53909 + 3.27688I
b = 0.718621 - 0.524057I		
u = 0.109262 + 0.145309I		
a = 5.05773 + 3.28326I	-0.39898 + 7.14577I	0.37929 - 7.71207I
b = -0.809661 - 0.678376I		
u = 0.109262 - 0.145309I		
a = 5.05773 - 3.28326I	-0.39898 - 7.14577I	0.37929 + 7.71207I
b = -0.809661 + 0.678376I		

II.
$$I_2^u = \langle 3.21 \times 10^6 u^{36} - 8.51 \times 10^5 u^{35} + \dots + 5.31 \times 10^4 b - 2.92 \times 10^6, \ 3.21 \times 10^6 u^{36} - 8.51 \times 10^5 u^{35} + \dots + 5.31 \times 10^4 a - 3.13 \times 10^6, \ u^{37} + u^{36} + \dots + 2u - 1 \rangle$$

(i) Arc colorings

$$a_{2} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -60.3276u^{36} + 16.0176u^{35} + \dots - 134.708u + 58.9701 \\ -60.3276u^{36} + 16.0176u^{35} + \dots - 132.708u + 54.9701 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 1.93802u^{36} - 14.9172u^{35} + \dots - 72.7027u + 24.0016 \\ -58.2978u^{36} - 45.2613u^{35} + \dots - 325.009u + 101.099 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -69.3193u^{36} + 24.9884u^{35} + \dots - 140.298u + 64.7513 \\ -51.4021u^{36} + 29.9371u^{35} + \dots - 68.7206u + 36.8117 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -59.3276u^{36} + 15.0176u^{35} + \dots - 134.708u + 58.9701 \\ -59.3276u^{36} + 15.0176u^{35} + \dots - 132.708u + 54.9701 \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} 3.49015u^{36} - 11.0164u^{35} + \dots - 47.3466u + 14.6451 \\ -47.7152u^{36} - 5.66967u^{35} + \dots - 133.037u + 46.5210 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 71.1971u^{36} + 13.8239u^{35} + \dots + 169.419u - 52.9595 \\ 91.3081u^{36} + 23.7980u^{35} + \dots + 169.419u - 52.9595 \\ 91.3081u^{36} + 13.3569u^{35} + \dots + 102.760u - 34.4590 \\ 32.0798u^{36} - 10.1208u^{35} + \dots - 24.5471u + 1.82674 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =
$$-\frac{27277420}{53147}u^{36} - \frac{3181402}{53147}u^{35} + \dots - \frac{71706772}{53147}u + \frac{24913109}{53147}u^{35} + \dots$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{37} - 21u^{36} + \dots + 12u - 1$
c_2	$u^{37} + u^{36} + \dots + 2u - 1$
c_3	$u^{37} - 5u^{35} + \dots + 2u - 1$
c_4	$u^{37} + u^{36} + \dots + 3u + 1$
<i>C</i> ₅	$u^{37} - u^{36} + \dots + 2u + 1$
c_6	$u^{37} + 18u^{36} + \dots + 18u + 1$
	$u^{37} - 19u^{36} + \dots + 13u - 1$
c ₈	$u^{37} + 2u^{36} + \dots + 5u + 1$
<i>C</i> 9	$u^{37} - 5u^{36} + \dots - 4u + 1$
c_{10}	$u^{37} - 19u^{36} + \dots - 17u + 1$
c_{11}	$u^{37} - u^{36} + \dots + 3u - 1$
c_{12}	$u^{37} - 4u^{36} + \dots - 5u + 1$
·	25

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
<i>c</i> ₁	$y^{37} - y^{36} + \dots - 116y - 1$
c_2, c_5	$y^{37} - 21y^{36} + \dots + 12y - 1$
<i>c</i> ₃	$y^{37} - 10y^{36} + \dots + 14y - 1$
c_4, c_{11}	$y^{37} + 19y^{36} + \dots - 17y - 1$
<i>C</i> ₆	$y^{37} + 12y^{36} + \dots - 120y^2 - 1$
	$y^{37} + 11y^{36} + \dots + 7y - 1$
<i>c</i> ₈	$y^{37} + 6y^{36} + \dots + 17y - 1$
<i>c</i> ₉	$y^{37} - y^{36} + \dots - 2y - 1$
c_{10}	$y^{37} + 3y^{36} + \dots - 73y - 1$
c_{12}	$y^{37} + 2y^{36} + \dots + y - 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.636360 + 0.780355I		
a = 1.121450 + 0.089933I	1.94301 + 5.57497I	3.17751 - 6.09733I
b = 0.050971 + 0.294614I		
u = 0.636360 - 0.780355I		
a = 1.121450 - 0.089933I	1.94301 - 5.57497I	3.17751 + 6.09733I
b = 0.050971 - 0.294614I		
u = 0.929573 + 0.324747I		
a = 0.76409 + 1.46375I	-0.356489 + 0.688026I	-0.683493 - 1.081977I
b = 1.40220 + 2.48146I		
u = 0.929573 - 0.324747I		
a = 0.76409 - 1.46375I	-0.356489 - 0.688026I	-0.683493 + 1.081977I
b = 1.40220 - 2.48146I		
u = -0.909768 + 0.344427I		
a = -0.41618 + 1.59821I	-1.35075 - 5.66407I	-2.15599 + 6.15671I
b = -1.13504 + 2.89523I		
u = -0.909768 - 0.344427I		
a = -0.41618 - 1.59821I	-1.35075 + 5.66407I	-2.15599 - 6.15671I
b = -1.13504 - 2.89523I		
u = -0.914509 + 0.308324I		
a = 0.821358 - 1.031710I	-1.30915 + 8.39971I	-2.21916 - 10.51765I
b = 0.372931 + 0.023664I		
u = -0.914509 - 0.308324I		
a = 0.821358 + 1.031710I	-1.30915 - 8.39971I	-2.21916 + 10.51765I
b = 0.372931 - 0.023664I		
u = 0.928357 + 0.259036I		
a = -0.400360 - 1.136020I	-0.23011 - 3.12941I	-0.31946 + 4.76010I
b = -0.155434 - 0.362444I		
u = 0.928357 - 0.259036I		
a = -0.400360 + 1.136020I	-0.23011 + 3.12941I	-0.31946 - 4.76010I
b = -0.155434 + 0.362444I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.968327 + 0.400339I		
a = 0.481131 - 0.276979I	-4.64121 + 2.66285I	-8.78178 - 2.44410I
b = -0.995697 + 0.297587I		
u = -0.968327 - 0.400339I		
a = 0.481131 + 0.276979I	-4.64121 - 2.66285I	-8.78178 + 2.44410I
b = -0.995697 - 0.297587I		
u = -0.605875 + 0.729762I		
a = -1.53601 - 0.15500I	3.08832 - 1.09963I	5.89565 - 0.28185I
b = -0.351090 + 0.201233I		
u = -0.605875 - 0.729762I		
a = -1.53601 + 0.15500I	3.08832 + 1.09963I	5.89565 + 0.28185I
b = -0.351090 - 0.201233I		
u = 0.918262 + 0.172526I		
a = 0.763004 + 0.939190I	-1.46734 + 1.62332I	-2.33782 - 6.01993I
b = 0.71890 + 1.44586I		
u = 0.918262 - 0.172526I		
a = 0.763004 - 0.939190I	-1.46734 - 1.62332I	-2.33782 + 6.01993I
b = 0.71890 - 1.44586I		
u = 0.236700 + 0.883679I		
a = 0.226767 - 0.321382I	-0.924259 - 0.943713I	-7.33975 + 6.12981I
b = -0.162140 + 0.421168I		
u = 0.236700 - 0.883679I		
a = 0.226767 + 0.321382I	-0.924259 + 0.943713I	-7.33975 - 6.12981I
b = -0.162140 - 0.421168I		
u = -0.827293 + 0.346568I		
a = -0.307640 + 0.779415I	-4.06120 + 0.44955I	-10.20168 - 0.39324I
b = -0.15648 + 2.63330I		
u = -0.827293 - 0.346568I		
a = -0.307640 - 0.779415I	-4.06120 - 0.44955I	-10.20168 + 0.39324I
b = -0.15648 - 2.63330I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.447006 + 0.695397I		
a = -1.35348 - 1.14865I	3.54644 - 2.96378I	3.90196 + 4.10249I
b = -0.371285 - 0.375676I		
u = -0.447006 - 0.695397I		
a = -1.35348 + 1.14865I	3.54644 + 2.96378I	3.90196 - 4.10249I
b = -0.371285 + 0.375676I		
u = 1.087260 + 0.481427I		
a = -0.233225 - 0.304898I	-3.59836 - 3.69556I	-6.70217 + 3.70626I
b = 0.568726 - 0.764158I		
u = 1.087260 - 0.481427I		
a = -0.233225 + 0.304898I	-3.59836 + 3.69556I	-6.70217 - 3.70626I
b = 0.568726 + 0.764158I		
u = 1.016060 + 0.618653I		
a = -0.121085 - 1.299260I	0.74356 - 10.83980I	0. + 10.88143I
b = 0.07576 - 2.51417I		
u = 1.016060 - 0.618653I		
a = -0.121085 + 1.299260I	0.74356 + 10.83980I	0 10.88143I
b = 0.07576 + 2.51417I		
u = -1.027080 + 0.605357I		
a = -0.18778 - 1.52071I	1.77824 + 6.20689I	0 5.59321I
b = -0.50297 - 2.68204I		
u = -1.027080 - 0.605357I		
a = -0.18778 + 1.52071I	1.77824 - 6.20689I	0. + 5.59321I
b = -0.50297 + 2.68204I		
u = -1.075070 + 0.601295I		
a = -0.718335 - 1.154960I	1.72174 + 8.01761I	0 8.88964I
b = -1.07329 - 2.02633I		
u = -1.075070 - 0.601295I		
a = -0.718335 + 1.154960I	1.72174 - 8.01761I	0. + 8.88964I
b = -1.07329 + 2.02633I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.020840 + 0.791819I		
a = 0.394801 - 0.544825I	-1.13245 - 3.27552I	0. + 41.1711I
b = 0.080384 - 1.180470I		
u = 1.020840 - 0.791819I		
a = 0.394801 + 0.544825I	-1.13245 + 3.27552I	0 41.1711I
b = 0.080384 + 1.180470I		
u = 1.46097		
a = 0.465667	-2.45249	0
b = 0.692620		
u = -1.48301 + 0.20333I		
a = -0.120677 - 0.151126I	-7.04467 + 4.84529I	0
b = -0.349374 - 0.203202I		
u = -1.48301 - 0.20333I		
a = -0.120677 + 0.151126I	-7.04467 - 4.84529I	0
b = -0.349374 + 0.203202I		
u = 0.254049 + 0.261294I		
a = 2.08933 - 2.99081I	3.00637 - 2.83494I	3.37830 + 2.42808I
b = 0.136624 - 0.995665I		
u = 0.254049 - 0.261294I		
a = 2.08933 + 2.99081I	3.00637 + 2.83494I	3.37830 - 2.42808I
b = 0.136624 + 0.995665I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{37} - 21u^{36} + \dots + 12u - 1)(u^{177} + 80u^{176} + \dots + 34u + 1) $
c_2	$(u^{37} + u^{36} + \dots + 2u - 1)(u^{177} + 4u^{176} + \dots + 10u + 1)$
c_3	$(u^{37} - 5u^{35} + \dots + 2u - 1)(u^{177} + u^{176} + \dots + 220952u - 6793)$
c_4	$(u^{37} + u^{36} + \dots + 3u + 1)(u^{177} + 36u^{175} + \dots - 195u + 59)$
c_5	$(u^{37} - u^{36} + \dots + 2u + 1)(u^{177} + 4u^{176} + \dots + 10u + 1)$
c_6	$(u^{37} + 18u^{36} + \dots + 18u + 1)$ $\cdot (u^{177} - 17u^{176} + \dots - 962894u + 202189)$
c_7	$(u^{37} - 19u^{36} + \dots + 13u - 1)(u^{177} + 8u^{176} + \dots + 79u - 1)$
c_8	$(u^{37} + 2u^{36} + \dots + 5u + 1)$ $\cdot (u^{177} + u^{176} + \dots - 377547059u - 63518701)$
c_9	$ (u^{37} - 5u^{36} + \dots - 4u + 1)(u^{177} + 18u^{176} + \dots - 5792u - 523) $
c_{10}	$(u^{37} - 19u^{36} + \dots - 17u + 1)(u^{177} + 72u^{176} + \dots - 103103u - 3481)$
c_{11}	$(u^{37} - u^{36} + \dots + 3u - 1)(u^{177} + 36u^{175} + \dots - 195u + 59)$
c_{12}	$(u^{37} - 4u^{36} + \dots - 5u + 1)(u^{177} + 5u^{176} + \dots + 895865u - 154903)$ 32

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{37} - y^{36} + \dots - 116y - 1)(y^{177} + 44y^{176} + \dots - 2218y - 1)$
c_2,c_5	$(y^{37} - 21y^{36} + \dots + 12y - 1)(y^{177} - 80y^{176} + \dots + 34y - 1)$
c ₃	$(y^{37} - 10y^{36} + \dots + 14y - 1)$ $\cdot (y^{177} - 17y^{176} + \dots + 37538868580y - 46144849)$
c_4,c_{11}	$(y^{37} + 19y^{36} + \dots - 17y - 1)(y^{177} + 72y^{176} + \dots - 103103y - 3481)$
C ₆	$(y^{37} + 12y^{36} + \dots - 120y^2 - 1)$ $\cdot (y^{177} - 27y^{176} + \dots - 44453979886y - 40880391721)$
c_7	$(y^{37} + 11y^{36} + \dots + 7y - 1)(y^{177} + 12y^{176} + \dots + 549y - 1)$
c ₈	$(y^{37} + 6y^{36} + \dots + 17y - 1)$ $\cdot (y^{177} - 37y^{176} + \dots + 270860312130815791y - 4034625376727401)$
c_9	$(y^{37} - y^{36} + \dots - 2y - 1)(y^{177} + 8y^{176} + \dots - 2.89826 \times 10^7 y - 273529)$
c_{10}	$(y^{37} + 3y^{36} + \dots - 73y - 1)$ $\cdot (y^{177} + 72y^{176} + \dots - 1149837415y - 12117361)$
c_{12}	$(y^{37} + 2y^{36} + \dots + y - 1)$ $\cdot (y^{177} + 31y^{176} + \dots - 1661817074137y - 23994939409)$