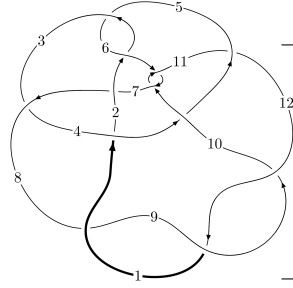
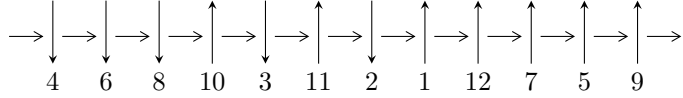


12a₀₉₀₂ (K12a₀₉₀₂)



A knot diagram¹

Linearized knot diagram



Solving Sequence

$$6,11 \xrightarrow{c_6} 3,7 \xrightarrow{c_2} 2 \xrightarrow{c_7} 8 \xrightarrow{c_5} 5 \xrightarrow{c_{11}} 12 \xrightarrow{c_{10}} 10 \xrightarrow{c_4} 4 \xrightarrow{c_1} 1 \xrightarrow{c_9} 9 \rightsquigarrow c_3, c_8, c_{12}$$

Ideals for irreducible components² of X_{par}

$$I_1^u = \langle 2.28807 \times 10^{579} u^{141} - 6.43625 \times 10^{579} u^{140} + \dots + 1.05243 \times 10^{581} b - 1.13630 \times 10^{583}, \\ - 5.53214 \times 10^{582} u^{141} - 3.86140 \times 10^{582} u^{140} + \dots + 2.97837 \times 10^{583} a + 3.74063 \times 10^{585}, \\ u^{142} + u^{141} + \dots - 433u + 566 \rangle$$

$$I_2^u = \langle -2.57367 \times 10^{19} u^{35} + 4.86277 \times 10^{19} u^{34} + \dots + 2.01550 \times 10^{18} b - 8.20022 \times 10^{17}, \\ 6.09631 \times 10^{19} u^{35} - 1.33362 \times 10^{20} u^{34} + \dots + 2.01550 \times 10^{18} a + 1.44484 \times 10^{18}, u^{36} - 2u^{35} + \dots + 14u^2 + \dots \rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 178 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>).

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

$$\mathbf{I. } J_1^u = \langle 2.29 \times 10^{579} u^{141} - 6.44 \times 10^{579} u^{140} + \dots + 1.05 \times 10^{581} b - 1.14 \times 10^{583}, -5.53 \times 10^{582} u^{141} - 3.86 \times 10^{582} u^{140} + \dots + 2.98 \times 10^{583} a + 3.74 \times 10^{585}, u^{142} + u^{141} + \dots - 433u + 566 \rangle$$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.185744u^{141} + 0.129648u^{140} + \dots + 322.302u - 125.593 \\ -0.0217409u^{141} + 0.0611562u^{140} + \dots - 118.415u + 107.969 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.164003u^{141} + 0.190804u^{140} + \dots + 203.887u - 17.6243 \\ -0.0217409u^{141} + 0.0611562u^{140} + \dots - 118.415u + 107.969 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 0.309742u^{141} + 0.350704u^{140} + \dots + 493.397u - 53.3774 \\ -0.0719401u^{141} - 0.0810056u^{140} + \dots - 131.013u + 13.3389 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.121598u^{141} - 0.0533193u^{140} + \dots - 327.614u + 128.023 \\ 0.0891752u^{141} + 0.159360u^{140} + \dots + 52.7069u + 65.0312 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.293005u^{141} + 0.169552u^{140} + \dots + 378.798u - 149.784 \\ -0.0739083u^{141} - 0.0139821u^{140} + \dots - 108.232u + 84.0302 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ u^3 + u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} -0.106030u^{141} + 0.0168797u^{140} + \dots - 381.916u + 195.461 \\ 0.0887523u^{141} + 0.131058u^{140} + \dots + 92.1652u + 28.5140 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0525750u^{141} - 0.0742782u^{140} + \dots + 367.180u - 194.571 \\ 0.0505938u^{141} + 0.117664u^{140} + \dots - 22.8007u + 72.9937 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.470709u^{141} - 0.618514u^{140} + \dots - 641.784u - 141.596 \\ 0.0411816u^{141} + 0.125305u^{140} + \dots + 9.96569u + 101.141 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = $-0.326552u^{141} - 0.235065u^{140} + \dots - 376.096u + 126.428$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{142} - 11u^{141} + \dots + 60356u + 9829$
c_2, c_5	$u^{142} + 10u^{141} + \dots - 30698u + 7239$
c_3	$u^{142} - u^{141} + \dots - 5976125u + 475354$
c_4	$u^{142} - u^{141} + \dots + 2114842u + 213833$
c_6, c_{10}	$u^{142} + u^{141} + \dots - 433u + 566$
c_7	$u^{142} - u^{141} + \dots - 1090932u + 74313$
c_8, c_9, c_{12}	$u^{142} + 3u^{141} + \dots + 11u + 3$
c_{11}	$u^{142} + u^{141} + \dots + 31729814u + 9330071$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{142} - 33y^{141} + \dots - 4656904666y + 96609241$
c_2, c_5	$y^{142} + 72y^{141} + \dots + 1964047862y + 52403121$
c_3	$y^{142} - 37y^{141} + \dots - 14479019050013y + 225961425316$
c_4	$y^{142} + 41y^{141} + \dots + 1108048823382y + 45724551889$
c_6, c_{10}	$y^{142} + 75y^{141} + \dots + 11660023y + 320356$
c_7	$y^{142} + 27y^{141} + \dots + 321386954580y + 5522421969$
c_8, c_9, c_{12}	$y^{142} + 147y^{141} + \dots + 239y + 9$
c_{11}	$y^{142} + 45y^{141} + \dots + 2490029141421586y + 87050224865041$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.478669 + 0.856250I$ $a = 1.33220 - 0.64590I$ $b = 0.383497 + 1.146310I$	$3.46210 + 0.57689I$	0
$u = -0.478669 - 0.856250I$ $a = 1.33220 + 0.64590I$ $b = 0.383497 - 1.146310I$	$3.46210 - 0.57689I$	0
$u = -0.276069 + 0.983520I$ $a = -0.223608 + 0.516278I$ $b = -1.254720 + 0.327774I$	$-4.00562 - 0.90784I$	0
$u = -0.276069 - 0.983520I$ $a = -0.223608 - 0.516278I$ $b = -1.254720 - 0.327774I$	$-4.00562 + 0.90784I$	0
$u = 0.587967 + 0.847989I$ $a = 1.20752 + 0.85788I$ $b = 0.514239 - 0.957313I$	$2.57766 + 3.35143I$	0
$u = 0.587967 - 0.847989I$ $a = 1.20752 - 0.85788I$ $b = 0.514239 + 0.957313I$	$2.57766 - 3.35143I$	0
$u = 0.420975 + 0.862842I$ $a = 1.37063 + 0.46303I$ $b = 0.254616 - 1.311030I$	$-2.54002 - 3.38817I$	0
$u = 0.420975 - 0.862842I$ $a = 1.37063 - 0.46303I$ $b = 0.254616 + 1.311030I$	$-2.54002 + 3.38817I$	0
$u = 0.168952 + 1.026210I$ $a = -0.356726 + 0.070450I$ $b = -1.280580 - 0.362676I$	$-4.05586 + 0.44867I$	0
$u = 0.168952 - 1.026210I$ $a = -0.356726 - 0.070450I$ $b = -1.280580 + 0.362676I$	$-4.05586 - 0.44867I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.305624 + 0.994112I$ $a = -0.039538 - 0.797063I$ $b = -1.47194 - 0.29326I$	$-10.36690 + 0.94731I$	0
$u = 0.305624 - 0.994112I$ $a = -0.039538 + 0.797063I$ $b = -1.47194 + 0.29326I$	$-10.36690 - 0.94731I$	0
$u = 0.328331 + 1.000760I$ $a = 0.509886 - 0.205943I$ $b = -0.978942 - 0.877373I$	$-8.45607 - 1.93135I$	0
$u = 0.328331 - 1.000760I$ $a = 0.509886 + 0.205943I$ $b = -0.978942 + 0.877373I$	$-8.45607 + 1.93135I$	0
$u = -0.968840 + 0.437352I$ $a = -0.244962 + 0.682190I$ $b = 0.544550 - 0.862963I$	$-5.46124 - 1.69208I$	0
$u = -0.968840 - 0.437352I$ $a = -0.244962 - 0.682190I$ $b = 0.544550 + 0.862963I$	$-5.46124 + 1.69208I$	0
$u = -0.107346 + 1.063880I$ $a = -0.273242 - 0.295384I$ $b = -1.50566 + 0.37213I$	$-10.44900 - 0.12490I$	0
$u = -0.107346 - 1.063880I$ $a = -0.273242 + 0.295384I$ $b = -1.50566 - 0.37213I$	$-10.44900 + 0.12490I$	0
$u = -1.075090 + 0.049904I$ $a = 0.39394 + 1.52869I$ $b = -0.171883 - 1.212840I$	$0.09215 - 2.97768I$	0
$u = -1.075090 - 0.049904I$ $a = 0.39394 - 1.52869I$ $b = -0.171883 + 1.212840I$	$0.09215 + 2.97768I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.834850 + 0.360564I$ $a = 0.67808 + 1.42823I$ $b = -0.352030 - 1.133540I$	$-2.50415 - 3.84106I$	0
$u = -0.834850 - 0.360564I$ $a = 0.67808 - 1.42823I$ $b = -0.352030 + 1.133540I$	$-2.50415 + 3.84106I$	0
$u = 0.532925 + 0.954910I$ $a = -0.54452 - 1.54775I$ $b = -0.964111 + 0.691845I$	$-8.87435 + 4.97515I$	0
$u = 0.532925 - 0.954910I$ $a = -0.54452 + 1.54775I$ $b = -0.964111 - 0.691845I$	$-8.87435 - 4.97515I$	0
$u = -0.343797 + 1.058840I$ $a = 0.274425 - 0.063970I$ $b = -0.774550 + 0.537885I$	$-2.27256 + 0.30412I$	0
$u = -0.343797 - 1.058840I$ $a = 0.274425 + 0.063970I$ $b = -0.774550 - 0.537885I$	$-2.27256 - 0.30412I$	0
$u = -0.718421 + 0.515010I$ $a = 1.11405 - 1.55879I$ $b = 0.753041 + 0.772121I$	$-5.89549 - 6.63684I$	0
$u = -0.718421 - 0.515010I$ $a = 1.11405 + 1.55879I$ $b = 0.753041 - 0.772121I$	$-5.89549 + 6.63684I$	0
$u = -0.908635 + 0.651617I$ $a = -0.20098 + 1.66515I$ $b = -0.200393 - 0.692894I$	$-1.00289 - 4.26111I$	0
$u = -0.908635 - 0.651617I$ $a = -0.20098 - 1.66515I$ $b = -0.200393 + 0.692894I$	$-1.00289 + 4.26111I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.588083 + 0.649256I$ $a = -0.026913 - 0.970820I$ $b = 0.196803 + 1.199740I$	$3.16495 + 1.28532I$	0
$u = 0.588083 - 0.649256I$ $a = -0.026913 + 0.970820I$ $b = 0.196803 - 1.199740I$	$3.16495 - 1.28532I$	0
$u = 0.437260 + 1.051100I$ $a = -1.75375 - 0.97756I$ $b = -0.402824 + 1.320210I$	$-2.92869 + 8.77702I$	0
$u = 0.437260 - 1.051100I$ $a = -1.75375 + 0.97756I$ $b = -0.402824 - 1.320210I$	$-2.92869 - 8.77702I$	0
$u = 0.003428 + 0.860712I$ $a = -1.09628 - 0.92751I$ $b = -0.88457 + 1.13243I$	$-7.57932 + 3.21423I$	0
$u = 0.003428 - 0.860712I$ $a = -1.09628 + 0.92751I$ $b = -0.88457 - 1.13243I$	$-7.57932 - 3.21423I$	0
$u = -0.358491 + 1.089620I$ $a = -1.61364 + 0.32071I$ $b = -0.402768 - 1.118320I$	$1.82183 - 6.06054I$	0
$u = -0.358491 - 1.089620I$ $a = -1.61364 - 0.32071I$ $b = -0.402768 + 1.118320I$	$1.82183 + 6.06054I$	0
$u = 1.143980 + 0.138090I$ $a = 0.46738 + 1.42871I$ $b = 0.452265 - 0.680884I$	$1.57594 + 1.20217I$	0
$u = 1.143980 - 0.138090I$ $a = 0.46738 - 1.42871I$ $b = 0.452265 + 0.680884I$	$1.57594 - 1.20217I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.271997 + 1.128510I$ $a = -1.244120 + 0.524267I$ $b = -0.342755 + 0.875789I$	$-0.94220 + 2.37666I$	0
$u = 0.271997 - 1.128510I$ $a = -1.244120 - 0.524267I$ $b = -0.342755 - 0.875789I$	$-0.94220 - 2.37666I$	0
$u = 0.292494 + 0.785928I$ $a = -0.509142 - 1.181730I$ $b = -0.03316 + 1.72308I$	$-2.10987 + 6.56452I$	0
$u = 0.292494 - 0.785928I$ $a = -0.509142 + 1.181730I$ $b = -0.03316 - 1.72308I$	$-2.10987 - 6.56452I$	0
$u = 0.289860 + 1.155650I$ $a = -0.067496 + 0.212863I$ $b = -0.740555 + 0.018184I$	$-2.68159 + 2.57576I$	0
$u = 0.289860 - 1.155650I$ $a = -0.067496 - 0.212863I$ $b = -0.740555 - 0.018184I$	$-2.68159 - 2.57576I$	0
$u = -0.384045 + 1.134370I$ $a = 0.98934 - 1.94180I$ $b = 0.426980 + 1.102130I$	$-9.63220 - 9.37220I$	0
$u = -0.384045 - 1.134370I$ $a = 0.98934 + 1.94180I$ $b = 0.426980 - 1.102130I$	$-9.63220 + 9.37220I$	0
$u = 0.590506 + 1.044010I$ $a = 1.252460 + 0.627862I$ $b = 0.010668 - 0.799440I$	$0.87521 + 2.04600I$	0
$u = 0.590506 - 1.044010I$ $a = 1.252460 - 0.627862I$ $b = 0.010668 + 0.799440I$	$0.87521 - 2.04600I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.368091 + 0.707655I$ $a = -0.315007 + 1.177230I$ $b = 0.05498 - 1.51104I$	$4.01740 - 4.28704I$	0
$u = -0.368091 - 0.707655I$ $a = -0.315007 - 1.177230I$ $b = 0.05498 + 1.51104I$	$4.01740 + 4.28704I$	0
$u = -0.637298 + 1.022940I$ $a = 1.38467 - 0.52036I$ $b = -0.164880 + 0.719875I$	$-4.34036 - 1.57855I$	0
$u = -0.637298 - 1.022940I$ $a = 1.38467 + 0.52036I$ $b = -0.164880 - 0.719875I$	$-4.34036 + 1.57855I$	0
$u = -0.559655 + 0.560349I$ $a = 0.824163 + 0.312751I$ $b = -0.070009 - 0.359810I$	$-4.46226 - 2.06361I$	0
$u = -0.559655 - 0.560349I$ $a = 0.824163 - 0.312751I$ $b = -0.070009 + 0.359810I$	$-4.46226 + 2.06361I$	0
$u = 0.673809 + 0.410469I$ $a = 1.13725 + 1.56194I$ $b = -0.566301 - 1.174990I$	$-4.78229 - 3.89551I$	0
$u = 0.673809 - 0.410469I$ $a = 1.13725 - 1.56194I$ $b = -0.566301 + 1.174990I$	$-4.78229 + 3.89551I$	0
$u = -0.720671 + 0.320211I$ $a = 0.76744 - 1.53883I$ $b = -0.377558 + 1.169930I$	$1.63882 + 2.84244I$	0
$u = -0.720671 - 0.320211I$ $a = 0.76744 + 1.53883I$ $b = -0.377558 - 1.169930I$	$1.63882 - 2.84244I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.038408 + 0.781028I$ $a = -1.97752 + 0.88211I$ $b = -0.523972 - 0.860480I$	$-0.661106 - 1.168450I$	0
$u = 0.038408 - 0.781028I$ $a = -1.97752 - 0.88211I$ $b = -0.523972 + 0.860480I$	$-0.661106 + 1.168450I$	0
$u = 0.552073 + 1.085980I$ $a = -1.00678 - 1.61348I$ $b = -0.77923 + 1.38683I$	$-6.77196 + 8.65975I$	0
$u = 0.552073 - 1.085980I$ $a = -1.00678 + 1.61348I$ $b = -0.77923 - 1.38683I$	$-6.77196 - 8.65975I$	0
$u = 1.176740 + 0.317476I$ $a = -0.421676 - 1.297270I$ $b = 0.557082 + 1.188040I$	$-4.38743 - 12.66050I$	0
$u = 1.176740 - 0.317476I$ $a = -0.421676 + 1.297270I$ $b = 0.557082 - 1.188040I$	$-4.38743 + 12.66050I$	0
$u = 0.746465 + 0.229567I$ $a = 0.49746 - 1.46801I$ $b = -0.255192 + 1.180850I$	$3.01026 + 2.97423I$	0
$u = 0.746465 - 0.229567I$ $a = 0.49746 + 1.46801I$ $b = -0.255192 - 1.180850I$	$3.01026 - 2.97423I$	0
$u = -0.235899 + 1.198680I$ $a = -0.157627 - 0.037888I$ $b = -1.107410 - 0.397698I$	$-9.58024 - 3.78253I$	0
$u = -0.235899 - 1.198680I$ $a = -0.157627 + 0.037888I$ $b = -1.107410 + 0.397698I$	$-9.58024 + 3.78253I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.366840 + 1.176800I$	$-3.12654 + 5.12017I$	0
$a = 1.06025 + 1.61211I$		
$b = 0.396687 - 1.017200I$		
$u = 0.366840 - 1.176800I$	$-3.12654 - 5.12017I$	0
$a = 1.06025 - 1.61211I$		
$b = 0.396687 + 1.017200I$		
$u = -1.194370 + 0.342101I$	$2.67057 + 8.51304I$	0
$a = -0.300599 + 1.256420I$		
$b = 0.498541 - 1.134710I$		
$u = -1.194370 - 0.342101I$	$2.67057 - 8.51304I$	0
$a = -0.300599 - 1.256420I$		
$b = 0.498541 + 1.134710I$		
$u = -0.543589 + 1.118370I$	$-0.69245 - 7.64949I$	0
$a = -0.98588 + 1.35723I$		
$b = -0.67365 - 1.31528I$		
$u = -0.543589 - 1.118370I$	$-0.69245 + 7.64949I$	0
$a = -0.98588 - 1.35723I$		
$b = -0.67365 + 1.31528I$		
$u = 1.179090 + 0.417228I$	$3.66469 - 0.46871I$	0
$a = 0.442552 + 1.230250I$		
$b = -0.192615 - 1.032570I$		
$u = 1.179090 - 0.417228I$	$3.66469 + 0.46871I$	0
$a = 0.442552 - 1.230250I$		
$b = -0.192615 + 1.032570I$		
$u = -0.730932 + 0.103327I$	$-0.03095 + 4.13089I$	$0. - 5.99292I$
$a = 0.073008 - 1.332990I$		
$b = 0.633370 + 0.148350I$		
$u = -0.730932 - 0.103327I$	$-0.03095 - 4.13089I$	$0. + 5.99292I$
$a = 0.073008 + 1.332990I$		
$b = 0.633370 - 0.148350I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.560920 + 1.134940I$		
$a = 1.20787 - 0.83755I$	$-3.07228 - 2.47279I$	0
$b = 0.093775 + 0.989121I$		
$u = -0.560920 - 1.134940I$		
$a = 1.20787 + 0.83755I$	$-3.07228 + 2.47279I$	0
$b = 0.093775 - 0.989121I$		
$u = -0.392275 + 1.207670I$		
$a = 0.74877 - 1.35824I$	$-3.80153 + 0.03349I$	0
$b = 0.433329 + 0.906999I$		
$u = -0.392275 - 1.207670I$		
$a = 0.74877 + 1.35824I$	$-3.80153 - 0.03349I$	0
$b = 0.433329 - 0.906999I$		
$u = 0.723036 + 0.096967I$		
$a = -0.30442 + 1.62170I$	$-7.29798 - 7.55573I$	$0. + 4.12954I$
$b = 0.819101 - 0.184753I$		
$u = 0.723036 - 0.096967I$		
$a = -0.30442 - 1.62170I$	$-7.29798 + 7.55573I$	$0. - 4.12954I$
$b = 0.819101 + 0.184753I$		
$u = -0.497006 + 1.183730I$		
$a = 0.047052 - 0.146499I$	$-3.12697 - 8.74193I$	0
$b = 1.115480 - 0.371088I$		
$u = -0.497006 - 1.183730I$		
$a = 0.047052 + 0.146499I$	$-3.12697 + 8.74193I$	0
$b = 1.115480 + 0.371088I$		
$u = -0.796008 + 1.007520I$		
$a = -0.45975 + 1.45851I$	$-1.18802 - 4.51356I$	0
$b = -0.469655 - 0.944239I$		
$u = -0.796008 - 1.007520I$		
$a = -0.45975 - 1.45851I$	$-1.18802 + 4.51356I$	0
$b = -0.469655 + 0.944239I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.498316 + 1.183950I$ $a = -0.077756 + 0.190020I$ $b = 1.283590 + 0.400393I$	$-10.3885 + 12.1530I$	0
$u = 0.498316 - 1.183950I$ $a = -0.077756 - 0.190020I$ $b = 1.283590 - 0.400393I$	$-10.3885 - 12.1530I$	0
$u = 0.418341 + 1.218000I$ $a = 0.47858 + 1.44988I$ $b = 0.546794 - 0.867528I$	$-10.96760 - 3.41269I$	0
$u = 0.418341 - 1.218000I$ $a = 0.47858 - 1.44988I$ $b = 0.546794 + 0.867528I$	$-10.96760 + 3.41269I$	0
$u = 0.082762 + 0.703328I$ $a = -0.67464 + 2.62267I$ $b = -0.200798 - 1.261050I$	$0.956664 - 0.580311I$	$0. - 2.89788I$
$u = 0.082762 - 0.703328I$ $a = -0.67464 - 2.62267I$ $b = -0.200798 + 1.261050I$	$0.956664 + 0.580311I$	$0. + 2.89788I$
$u = 0.479748 + 1.204300I$ $a = 0.195027 - 0.015270I$ $b = 0.862704 + 0.457878I$	$-2.22245 + 3.81114I$	0
$u = 0.479748 - 1.204300I$ $a = 0.195027 + 0.015270I$ $b = 0.862704 - 0.457878I$	$-2.22245 - 3.81114I$	0
$u = 1.230250 + 0.420710I$ $a = -0.129021 - 1.118690I$ $b = 0.463713 + 1.020690I$	$2.79525 - 2.59011I$	0
$u = 1.230250 - 0.420710I$ $a = -0.129021 + 1.118690I$ $b = 0.463713 - 1.020690I$	$2.79525 + 2.59011I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.458649 + 1.235680I$ $a = -0.751853 - 0.855465I$ $b = -0.68547 + 1.26825I$	$-1.03216 + 7.23401I$	0
$u = 0.458649 - 1.235680I$ $a = -0.751853 + 0.855465I$ $b = -0.68547 - 1.26825I$	$-1.03216 - 7.23401I$	0
$u = 0.435732 + 0.515732I$ $a = 0.62172 + 2.33397I$ $b = -0.26401 - 1.44804I$	$-1.25428 - 5.04052I$	$5.07314 + 1.23203I$
$u = 0.435732 - 0.515732I$ $a = 0.62172 - 2.33397I$ $b = -0.26401 + 1.44804I$	$-1.25428 + 5.04052I$	$5.07314 - 1.23203I$
$u = -0.024109 + 0.653679I$ $a = -3.49839 - 0.19298I$ $b = -0.186448 + 0.576874I$	$-0.32550 - 3.13895I$	$-0.060041 + 0.501749I$
$u = -0.024109 - 0.653679I$ $a = -3.49839 + 0.19298I$ $b = -0.186448 - 0.576874I$	$-0.32550 + 3.13895I$	$-0.060041 - 0.501749I$
$u = -0.597257 + 1.219750I$ $a = 0.051084 + 0.333777I$ $b = 0.809683 - 0.828704I$	$-8.08943 + 1.16458I$	0
$u = -0.597257 - 1.219750I$ $a = 0.051084 - 0.333777I$ $b = 0.809683 + 0.828704I$	$-8.08943 - 1.16458I$	0
$u = -0.410230 + 1.301090I$ $a = -0.510227 + 0.764524I$ $b = -0.82765 - 1.30593I$	$-7.40791 - 7.97201I$	0
$u = -0.410230 - 1.301090I$ $a = -0.510227 - 0.764524I$ $b = -0.82765 + 1.30593I$	$-7.40791 + 7.97201I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.548892 + 0.167026I$		
$a = 0.742819 + 0.391067I$	$1.098270 + 0.281063I$	$8.19845 - 0.19463I$
$b = 0.252418 + 0.111531I$		
$u = 0.548892 - 0.167026I$		
$a = 0.742819 - 0.391067I$	$1.098270 - 0.281063I$	$8.19845 + 0.19463I$
$b = 0.252418 - 0.111531I$		
$u = 0.70327 + 1.24166I$		
$a = -0.551424 - 1.246770I$	$0.96366 + 7.11785I$	0
$b = -0.487941 + 1.232670I$		
$u = 0.70327 - 1.24166I$		
$a = -0.551424 + 1.246770I$	$0.96366 - 7.11785I$	0
$b = -0.487941 - 1.232670I$		
$u = -0.75004 + 1.22284I$		
$a = 0.721701 - 1.044890I$	$-7.67992 - 4.65633I$	0
$b = 0.729375 + 0.950419I$		
$u = -0.75004 - 1.22284I$		
$a = 0.721701 + 1.044890I$	$-7.67992 + 4.65633I$	0
$b = 0.729375 - 0.950419I$		
$u = 0.16285 + 1.44238I$		
$a = 0.210070 + 0.138192I$	$-4.44830 + 1.80657I$	0
$b = 0.349364 + 0.626310I$		
$u = 0.16285 - 1.44238I$		
$a = 0.210070 - 0.138192I$	$-4.44830 - 1.80657I$	0
$b = 0.349364 - 0.626310I$		
$u = 0.68030 + 1.28462I$		
$a = 0.80183 + 1.29340I$	$-7.4568 + 19.2134I$	0
$b = 0.73667 - 1.30126I$		
$u = 0.68030 - 1.28462I$		
$a = 0.80183 - 1.29340I$	$-7.4568 - 19.2134I$	0
$b = 0.73667 + 1.30126I$		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.232624 + 0.493610I$ $a = 0.19216 - 2.26658I$ $b = -0.209908 + 1.361050I$	$3.82881 + 3.11867I$	$9.87010 + 4.90577I$
$u = -0.232624 - 0.493610I$ $a = 0.19216 + 2.26658I$ $b = -0.209908 - 1.361050I$	$3.82881 - 3.11867I$	$9.87010 - 4.90577I$
$u = -0.25270 + 1.43453I$ $a = -0.046030 - 0.307545I$ $b = 0.426363 - 0.498336I$	$-11.59990 - 5.71729I$	0
$u = -0.25270 - 1.43453I$ $a = -0.046030 + 0.307545I$ $b = 0.426363 + 0.498336I$	$-11.59990 + 5.71729I$	0
$u = -0.067851 + 0.538906I$ $a = -4.84135 + 0.50318I$ $b = 0.118425 - 0.506906I$	$-7.09986 + 6.70126I$	$-0.04550 + 1.57834I$
$u = -0.067851 - 0.538906I$ $a = -4.84135 - 0.50318I$ $b = 0.118425 + 0.506906I$	$-7.09986 - 6.70126I$	$-0.04550 - 1.57834I$
$u = -0.68521 + 1.28867I$ $a = 0.82550 - 1.23548I$ $b = 0.68519 + 1.24298I$	$-0.3743 - 15.1451I$	0
$u = -0.68521 - 1.28867I$ $a = 0.82550 + 1.23548I$ $b = 0.68519 - 1.24298I$	$-0.3743 + 15.1451I$	0
$u = 0.70273 + 1.29929I$ $a = 0.823221 + 1.147060I$ $b = 0.647600 - 1.138780I$	$-0.14927 + 9.44771I$	0
$u = 0.70273 - 1.29929I$ $a = 0.823221 - 1.147060I$ $b = 0.647600 + 1.138780I$	$-0.14927 - 9.44771I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.63157 + 1.35510I$ $a = -0.524328 + 1.140050I$ $b = -0.48541 - 1.38965I$	$-4.12698 - 9.13619I$	0
$u = -0.63157 - 1.35510I$ $a = -0.524328 - 1.140050I$ $b = -0.48541 + 1.38965I$	$-4.12698 + 9.13619I$	0
$u = 0.452608 + 0.213292I$ $a = 1.69199 + 0.39852I$ $b = -0.845004 - 0.343047I$	$-7.29237 - 1.24023I$	$-3.76862 + 1.01628I$
$u = 0.452608 - 0.213292I$ $a = 1.69199 - 0.39852I$ $b = -0.845004 + 0.343047I$	$-7.29237 + 1.24023I$	$-3.76862 - 1.01628I$
$u = -1.25890 + 0.87511I$ $a = 0.373514 - 1.010990I$ $b = -0.149001 + 0.925549I$	$-0.56233 - 2.85442I$	0
$u = -1.25890 - 0.87511I$ $a = 0.373514 + 1.010990I$ $b = -0.149001 - 0.925549I$	$-0.56233 + 2.85442I$	0
$u = -0.11145 + 1.53426I$ $a = 0.101173 + 0.171180I$ $b = 0.372465 - 0.710380I$	$-4.49502 + 3.56428I$	0
$u = -0.11145 - 1.53426I$ $a = 0.101173 - 0.171180I$ $b = 0.372465 + 0.710380I$	$-4.49502 - 3.56428I$	0
$u = 0.15662 + 1.61789I$ $a = -0.076669 - 0.232889I$ $b = 0.417265 + 0.774497I$	$-11.35590 - 7.40823I$	0
$u = 0.15662 - 1.61789I$ $a = -0.076669 + 0.232889I$ $b = 0.417265 - 0.774497I$	$-11.35590 + 7.40823I$	0

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.216999 + 0.249777I$		
$a = 1.388530 - 0.202847I$	$-1.226190 + 0.619054I$	$-4.72694 - 1.24239I$
$b = -0.557069 + 0.200280I$		
$u = -0.216999 - 0.249777I$		
$a = 1.388530 + 0.202847I$	$-1.226190 - 0.619054I$	$-4.72694 + 1.24239I$
$b = -0.557069 - 0.200280I$		

$$\text{II. } I_2^u = \langle -2.57 \times 10^{19}u^{35} + 4.86 \times 10^{19}u^{34} + \dots + 2.02 \times 10^{18}b - 8.20 \times 10^{17}, 6.10 \times 10^{19}u^{35} - 1.33 \times 10^{20}u^{34} + \dots + 2.02 \times 10^{18}a + 1.44 \times 10^{18}, u^{36} - 2u^{35} + \dots + 14u^2 + 1 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_6 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{11} &= \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_3 &= \begin{pmatrix} -30.2472u^{35} + 66.1684u^{34} + \dots - 77.5726u - 0.716865 \\ 12.7694u^{35} - 24.1269u^{34} + \dots + 36.7399u + 0.406859 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 1 \\ -u^2 \end{pmatrix} \\ a_2 &= \begin{pmatrix} -17.4778u^{35} + 42.0416u^{34} + \dots - 40.8327u - 0.310006 \\ 12.7694u^{35} - 24.1269u^{34} + \dots + 36.7399u + 0.406859 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 37.1444u^{35} - 89.8110u^{34} + \dots + 114.211u - 14.3262 \\ -12.7055u^{35} + 28.5405u^{34} + \dots - 35.9503u + 2.20666 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -18.6345u^{35} + 35.2322u^{34} + \dots - 55.3744u - 3.44365 \\ 9.84723u^{35} - 24.2438u^{34} + \dots + 27.1631u - 8.79275 \end{pmatrix} \\ a_{12} &= \begin{pmatrix} 2.18350u^{35} - 14.3137u^{34} + \dots + 19.5885u - 34.2760 \\ 2.69195u^{35} + 1.32869u^{34} + \dots + 16.9912u + 37.1156 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -u \\ u^3 + u \end{pmatrix} \\ a_4 &= \begin{pmatrix} -20.2791u^{35} + 37.3207u^{34} + \dots - 58.2966u - 9.40486 \\ 10.7024u^{35} - 24.0662u^{34} + \dots + 28.4407u - 4.03212 \end{pmatrix} \\ a_1 &= \begin{pmatrix} -30.6945u^{35} + 78.3639u^{34} + \dots - 126.465u + 37.7422 \\ 13.0033u^{35} - 30.3304u^{34} + \dots + 25.8852u - 6.93072 \end{pmatrix} \\ a_9 &= \begin{pmatrix} 1.85536u^{35} - 25.4658u^{34} + \dots + 9.94827u - 61.6082 \\ 2.80326u^{35} + 5.33318u^{34} + \dots + 20.0054u + 8.97209 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = 1

$$\text{(iii) Cusp Shapes} = -\frac{35973025950083734218}{2015496361627731553}u^{35} + \frac{94035164920635520509}{2015496361627731553}u^{34} + \dots - \frac{311102618662251135084}{2015496361627731553}u + \frac{194844079216638223094}{2015496361627731553}$$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{36} - 4u^{35} + \dots - 7u + 1$
c_2	$u^{36} - 13u^{35} + \dots - 7u + 1$
c_3	$u^{36} - 5u^{34} + \dots - u + 5$
c_4	$u^{36} + 8u^{34} + \dots - 3u + 1$
c_5	$u^{36} + 13u^{35} + \dots + 7u + 1$
c_6	$u^{36} - 2u^{35} + \dots + 14u^2 + 1$
c_7	$u^{36} + 2u^{35} + \dots - 51u + 19$
c_8, c_9	$u^{36} + 4u^{35} + \dots + 3u^2 + 1$
c_{10}	$u^{36} + 2u^{35} + \dots + 14u^2 + 1$
c_{11}	$u^{36} + 4u^{34} + \dots + 17u + 19$
c_{12}	$u^{36} - 4u^{35} + \dots + 3u^2 + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{36} - 14y^{35} + \dots - 11y + 1$
c_2, c_5	$y^{36} + 19y^{35} + \dots + 33y + 1$
c_3	$y^{36} - 10y^{35} + \dots - 161y + 25$
c_4	$y^{36} + 16y^{35} + \dots - 11y + 1$
c_6, c_{10}	$y^{36} + 18y^{35} + \dots + 28y + 1$
c_7	$y^{36} + 10y^{35} + \dots + 2035y + 361$
c_8, c_9, c_{12}	$y^{36} + 38y^{35} + \dots + 6y + 1$
c_{11}	$y^{36} + 8y^{35} + \dots + 2029y + 361$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.228706 + 0.974281I$		
$a = -0.308166 + 0.288171I$	$-3.62992 - 0.89196I$	$5.74509 + 6.13726I$
$b = -1.268950 + 0.258688I$		
$u = -0.228706 - 0.974281I$		
$a = -0.308166 - 0.288171I$	$-3.62992 + 0.89196I$	$5.74509 - 6.13726I$
$b = -1.268950 - 0.258688I$		
$u = -0.988092 + 0.212080I$		
$a = 0.211876 - 1.178230I$	$3.08966 + 1.78788I$	$6.07790 - 0.28630I$
$b = -0.323412 + 1.091440I$		
$u = -0.988092 - 0.212080I$		
$a = 0.211876 + 1.178230I$	$3.08966 - 1.78788I$	$6.07790 + 0.28630I$
$b = -0.323412 - 1.091440I$		
$u = 0.269227 + 0.940966I$		
$a = -0.230455 - 0.526025I$	$-9.74356 + 1.10597I$	$0.08806 - 6.10068I$
$b = -1.58746 - 0.21260I$		
$u = 0.269227 - 0.940966I$		
$a = -0.230455 + 0.526025I$	$-9.74356 - 1.10597I$	$0.08806 + 6.10068I$
$b = -1.58746 + 0.21260I$		
$u = -1.044870 + 0.099525I$		
$a = -0.53928 + 1.59752I$	$1.69231 - 1.26633I$	$25.9459 + 14.2093I$
$b = -0.414830 - 0.680381I$		
$u = -1.044870 - 0.099525I$		
$a = -0.53928 - 1.59752I$	$1.69231 + 1.26633I$	$25.9459 - 14.2093I$
$b = -0.414830 + 0.680381I$		
$u = 0.442553 + 1.055470I$		
$a = 0.016031 + 0.153440I$	$-7.24724 - 1.02583I$	$-0.796867 - 1.023283I$
$b = -0.927023 - 0.840368I$		
$u = 0.442553 - 1.055470I$		
$a = 0.016031 - 0.153440I$	$-7.24724 + 1.02583I$	$-0.796867 + 1.023283I$
$b = -0.927023 + 0.840368I$		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.368847 + 1.089750I$ $a = 1.49118 + 0.22115I$ $b = 0.052855 + 0.823044I$	$-0.68258 - 1.35085I$	$1.40417 - 0.38839I$
$u = -0.368847 - 1.089750I$ $a = 1.49118 - 0.22115I$ $b = 0.052855 - 0.823044I$	$-0.68258 + 1.35085I$	$1.40417 + 0.38839I$
$u = 0.622817 + 0.988493I$ $a = -0.819524 - 1.071440I$ $b = -0.861190 + 0.963155I$	$-6.86219 + 5.52328I$	$-2.87028 - 6.61639I$
$u = 0.622817 - 0.988493I$ $a = -0.819524 + 1.071440I$ $b = -0.861190 - 0.963155I$	$-6.86219 - 5.52328I$	$-2.87028 + 6.61639I$
$u = 0.399523 + 0.625845I$ $a = 2.49730 + 2.12993I$ $b = 0.141685 - 0.620149I$	$-0.07693 + 3.74141I$	$5.50452 - 11.00105I$
$u = 0.399523 - 0.625845I$ $a = 2.49730 - 2.12993I$ $b = 0.141685 + 0.620149I$	$-0.07693 - 3.74141I$	$5.50452 + 11.00105I$
$u = -0.198247 + 0.684021I$ $a = 0.77471 + 2.62745I$ $b = -0.062790 - 1.224510I$	$1.09408 - 1.32745I$	$1.94569 + 6.33508I$
$u = -0.198247 - 0.684021I$ $a = 0.77471 - 2.62745I$ $b = -0.062790 + 1.224510I$	$1.09408 + 1.32745I$	$1.94569 - 6.33508I$
$u = 0.486765 + 1.201470I$ $a = -0.84750 - 1.15917I$ $b = -0.54082 + 1.43724I$	$-4.96071 + 8.36904I$	$-2.97510 - 6.23739I$
$u = 0.486765 - 1.201470I$ $a = -0.84750 + 1.15917I$ $b = -0.54082 - 1.43724I$	$-4.96071 - 8.36904I$	$-2.97510 + 6.23739I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.162690 + 0.576692I$ $a = -0.005305 - 1.385200I$ $b = -0.140264 + 1.119050I$	$0.31041 + 4.13952I$	$7.76597 - 6.83399I$
$u = 1.162690 - 0.576692I$ $a = -0.005305 + 1.385200I$ $b = -0.140264 - 1.119050I$	$0.31041 - 4.13952I$	$7.76597 + 6.83399I$
$u = -0.540540 + 1.195850I$ $a = -0.86519 + 1.12290I$ $b = -0.600610 - 1.250450I$	$-0.20674 - 7.02610I$	$3.42108 + 5.72852I$
$u = -0.540540 - 1.195850I$ $a = -0.86519 - 1.12290I$ $b = -0.600610 + 1.250450I$	$-0.20674 + 7.02610I$	$3.42108 - 5.72852I$
$u = -0.191942 + 0.607701I$ $a = 3.91732 - 1.77982I$ $b = 0.425257 + 0.550597I$	$-7.25745 - 7.16410I$	$-5.7589 + 13.6777I$
$u = -0.191942 - 0.607701I$ $a = 3.91732 + 1.77982I$ $b = 0.425257 - 0.550597I$	$-7.25745 + 7.16410I$	$-5.7589 - 13.6777I$
$u = -0.076465 + 1.392690I$ $a = -0.488997 - 0.028628I$ $b = -0.201467 + 0.339609I$	$-4.30154 - 2.43261I$	$0. + 6.12130I$
$u = -0.076465 - 1.392690I$ $a = -0.488997 + 0.028628I$ $b = -0.201467 - 0.339609I$	$-4.30154 + 2.43261I$	$0. - 6.12130I$
$u = 0.165526 + 0.575319I$ $a = 1.41693 + 1.13030I$ $b = -0.15933 - 1.57045I$	$-2.09907 - 5.33545I$	$-2.75152 + 3.75593I$
$u = 0.165526 - 0.575319I$ $a = 1.41693 - 1.13030I$ $b = -0.15933 + 1.57045I$	$-2.09907 + 5.33545I$	$-2.75152 - 3.75593I$

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.06069 + 0.98074I$		
$a = 0.578765 + 1.114380I$	$-0.96095 + 3.33683I$	0
$b = -0.039259 - 0.823613I$		
$u = 1.06069 - 0.98074I$		
$a = 0.578765 - 1.114380I$	$-0.96095 - 3.33683I$	0
$b = -0.039259 + 0.823613I$		
$u = 0.05940 + 1.45935I$		
$a = -0.471555 + 0.059551I$	$-11.07780 + 6.42317I$	0
$b = 0.137685 - 0.404473I$		
$u = 0.05940 - 1.45935I$		
$a = -0.471555 - 0.059551I$	$-11.07780 - 6.42317I$	0
$b = 0.137685 + 0.404473I$		
$u = -0.031475 + 0.476251I$		
$a = 1.17186 - 1.59062I$	$3.57218 + 3.44962I$	$-1.37734 - 8.93470I$
$b = -0.130074 + 1.386360I$		
$u = -0.031475 - 0.476251I$		
$a = 1.17186 + 1.59062I$	$3.57218 - 3.44962I$	$-1.37734 + 8.93470I$
$b = -0.130074 - 1.386360I$		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{36} - 4u^{35} + \dots - 7u + 1)(u^{142} - 11u^{141} + \dots + 60356u + 9829)$
c_2	$(u^{36} - 13u^{35} + \dots - 7u + 1)(u^{142} + 10u^{141} + \dots - 30698u + 7239)$
c_3	$(u^{36} - 5u^{34} + \dots - u + 5)(u^{142} - u^{141} + \dots - 5976125u + 475354)$
c_4	$(u^{36} + 8u^{34} + \dots - 3u + 1)(u^{142} - u^{141} + \dots + 2114842u + 213833)$
c_5	$(u^{36} + 13u^{35} + \dots + 7u + 1)(u^{142} + 10u^{141} + \dots - 30698u + 7239)$
c_6	$(u^{36} - 2u^{35} + \dots + 14u^2 + 1)(u^{142} + u^{141} + \dots - 433u + 566)$
c_7	$(u^{36} + 2u^{35} + \dots - 51u + 19)(u^{142} - u^{141} + \dots - 1090932u + 74313)$
c_8, c_9	$(u^{36} + 4u^{35} + \dots + 3u^2 + 1)(u^{142} + 3u^{141} + \dots + 11u + 3)$
c_{10}	$(u^{36} + 2u^{35} + \dots + 14u^2 + 1)(u^{142} + u^{141} + \dots - 433u + 566)$
c_{11}	$(u^{36} + 4u^{34} + \dots + 17u + 19)$ $\cdot (u^{142} + u^{141} + \dots + 31729814u + 9330071)$
c_{12}	$(u^{36} - 4u^{35} + \dots + 3u^2 + 1)(u^{142} + 3u^{141} + \dots + 11u + 3)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{36} - 14y^{35} + \dots - 11y + 1)$ $\cdot (y^{142} - 33y^{141} + \dots - 4656904666y + 96609241)$
c_2, c_5	$(y^{36} + 19y^{35} + \dots + 33y + 1)$ $\cdot (y^{142} + 72y^{141} + \dots + 1964047862y + 52403121)$
c_3	$(y^{36} - 10y^{35} + \dots - 161y + 25)$ $\cdot (y^{142} - 37y^{141} + \dots - 14479019050013y + 225961425316)$
c_4	$(y^{36} + 16y^{35} + \dots - 11y + 1)$ $\cdot (y^{142} + 41y^{141} + \dots + 1108048823382y + 45724551889)$
c_6, c_{10}	$(y^{36} + 18y^{35} + \dots + 28y + 1)$ $\cdot (y^{142} + 75y^{141} + \dots + 11660023y + 320356)$
c_7	$(y^{36} + 10y^{35} + \dots + 2035y + 361)$ $\cdot (y^{142} + 27y^{141} + \dots + 321386954580y + 5522421969)$
c_8, c_9, c_{12}	$(y^{36} + 38y^{35} + \dots + 6y + 1)(y^{142} + 147y^{141} + \dots + 239y + 9)$
c_{11}	$(y^{36} + 8y^{35} + \dots + 2029y + 361)$ $\cdot (y^{142} + 45y^{141} + \dots + 2490029141421586y + 87050224865041)$