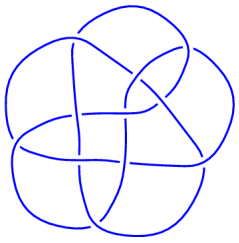
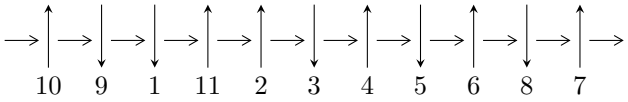
$11a_{266}$ $(K11a_{266})$



1

Arc Sequences



Solving Sequence

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

Representation Ideals

$$I = \bigcap_{i=1}^{4} I_i^u$$

$I_1^u = \langle 3b^4 + 4b^2 + 3b + 3,\ -6b^3 + 9b^2 - 5b + 11u + 18,\ 3b^3 + 12b^2 - 14b + 33a + 13\rangle$

$I_2^u = \langle u^{16} - 8u^{15} + \cdots - 3u^2 + 1,\ -3013u^{15} + 22471u^{14} + \cdots + 1751b + 4844,$
$-4844u^{15} + 35739u^{14} + \cdots + 1751a + 8173\rangle$

$I_3^u = \langle u^{30} - 19u^{29} + \cdots - 288u + 32,$
$-5.18165 \times 10^{13}u^{29} - 1.39954 \times 10^{15}u^{28} + \cdots + 2.00092 \times 10^{15}b - 3.95097 \times 10^{16},$
$9.87743 \times 10^{15}u^{29} - 1.88086 \times 10^{17}u^{28} + \cdots + 1.60074 \times 10^{16}a - 3.75598 \times 10^{17}\rangle$

$I_4^u = \langle 3b^{94} + 15b^{93} + \cdots - 14505b - 1083,$
$8.17190 \times 10^{549}u + 5.23199 \times 10^{547}b^{93} + \cdots - 1.27103 \times 10^{552}b - 9.49459 \times 10^{550},$
$-1.92735 \times 10^{549}b^{93} - 8.86068 \times 10^{549}b^{92} + \cdots + 2.45157 \times 10^{550}a + 1.32966 \times 10^{552}\rangle$

There are 4 irreducible components with 144 representations.

[1]The knot diagram image is adapter from "C. Livingston and A. H. Moore, KnotInfo: Table of Knot Invariants, http://www.indiana.edu/ knotinfo"

I.

$$\boldsymbol{I_1^u = \langle 3b^4+4b^2+3b+3,\ -6b^3+9b^2-5b+11u+18,\ 3b^3+12b^2-14b+33a+13\rangle}$$

(i) Arc colorings

$$a_4 = \begin{pmatrix}1\\0\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}-0.0909091b^3 - 0.363636b^2 + 0.424242b - 0.393939\\ b\end{pmatrix}$$

$$a_5 = \begin{pmatrix}0.363636b^3 - 0.545455b^2 + 0.303030b + 0.909091\\ -b^2\end{pmatrix}$$

$$a_7 = \begin{pmatrix}0\\0.545455b^3 - 0.818182b^2 + 0.454545b - 1.63636\end{pmatrix}$$

$$a_8 = \begin{pmatrix}0.545455b^3 - 0.818182b^2 + 0.454545b - 1.63636\\0.545455b^3 - 0.818182b^2 + 0.454545b - 1.63636\end{pmatrix}$$

$$a_9 = \begin{pmatrix}1.27273b^3 + 0.0909091b^2 + 1.06061b + 0.181818\\1.18182b^3 - 0.272727b^2 + 1.81818b - 0.545455\end{pmatrix}$$

$$a_1 = \begin{pmatrix}-0.0909091b^3 - 0.363636b^2 + 0.424242b - 0.393939\\-1.36364b^3 + 0.545455b^2 - 1.63636b - 0.909091\end{pmatrix}$$

$$a_3 = \begin{pmatrix}-0.727273b^3 + 0.0909091b^2 - 0.606061b - 0.151515\\-0.818182b^3 + 1.72727b^2 - 2.18182b + 1.45455\end{pmatrix}$$

$$a_2 = \begin{pmatrix}0.909091b^3 + 0.636364b^2 + 1.75758b - 0.0606061\\-0.272727b^3 + 1.90909b^2 + 0.272727b - 0.181818\end{pmatrix}$$

$$a_6 = \begin{pmatrix}0.151515b^3 + 0.272727b^2 - 0.707071b - 0.121212\\1.27273b^3 + 0.0909091b^2 + 0.0606061b + 1.18182\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}b^3 + b^2 + \frac{4}{3}b + \frac{1}{3}\\1.09091b^3 + 1.36364b^2 + 1.90909b + 0.727273\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}b^3 + b^2 + \frac{4}{3}b + \frac{1}{3}\\1.09091b^3 + 1.36364b^2 + 1.90909b + 0.727273\end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes =unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.50000-0.86603I$ $a=-0.583749-0.456809I$ $b=-0.480016-0.613405I$	$-1.64493+6.08965I$	$2.5000-13.9526I$
$u=-1.50000+0.86603I$ $a=-0.583749+0.456809I$ $b=-0.480016+0.613405I$	$-1.64493-6.08965I$	$2.5000+13.9526I$
$u=-1.50000+0.86603I$ $a=\ \ 0.417083-0.168134I$ $b=\ \ 0.480016-1.190755I$	$-1.64493-6.08965I$	$2.5000+13.9526I$
$u=-1.50000-0.86603I$ $a=\ \ 0.417083+0.168134I$ $b=\ \ 0.480016+1.190755I$	$-1.64493+6.08965I$	$2.5000-13.9526I$

II. $I_2^u = \langle u^{16} - 8u^{15} + \cdots - 3u^2 + 1,\ -3013u^{15} + 22471u^{14} + \cdots + 1751b + 4844,\ -4844u^{15} + 35739u^{14} + \cdots + 1751a + 8173 \rangle$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 2.76642u^{15} - 20.4106u^{14} + \cdots + 1.10623u - 4.66762 \\ 1.72073u^{15} - 12.8332u^{14} + \cdots - 4.66762u - 2.76642 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1.91034u^{15} - 14.0794u^{14} + \cdots - 6.20617u - 5.80640 \\ 1.20331u^{15} - 9.11936u^{14} + \cdots - 6.80640u - 1.91034 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 3.70645u^{15} - 27.2153u^{14} + \cdots - 8.84694u - 2.35979 \\ 2.19532u^{15} - 15.6933u^{14} + \cdots - 2.06682u - 4.40263 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 2.76642u^{15} - 20.4106u^{14} + \cdots + 1.10623u - 4.66762 \\ 0.788121u^{15} - 5.70988u^{14} + \cdots - 1.90120u - 1.04569 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.707025u^{15} - 4.96002u^{14} + \cdots + 0.600228u - 3.89606 \\ 0.937179u^{15} - 7.08110u^{14} + \cdots - 4.18903u - 0.0108509 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -5.13478u^{15} + 37.7533u^{14} + \cdots + 11.4672u + 4.55854 \\ -3.67276u^{15} + 26.2770u^{14} + \cdots + 5.23015u + 5.72016 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} -1.51114u^{15} + 11.5220u^{14} + \cdots + 6.78013u - 2.04283 \\ 0.0491148u^{15} - 0.0456882u^{14} + \cdots - 2.54312u + 1.88121 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.17133u^{15} - 15.4152u^{14} + \cdots + 2.15191u - 3.87950 \\ 1.12564u^{15} - 7.83781u^{14} + \cdots - 3.62193u - 1.97830 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 2.17133u^{15} - 15.4152u^{14} + \cdots + 2.15191u - 3.87950 \\ 1.12564u^{15} - 7.83781u^{14} + \cdots - 3.62193u - 1.97830 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes =unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.814551-0.560407I$ $a=-0.383583-0.381679I$ $b=\ \ 0.098551+0.525860I$	$2.37780+3.65031I$	$5.77914-4.75975I$
$u=-0.814551+0.560407I$ $a=-0.383583+0.381679I$ $b=\ \ 0.098551-0.525860I$	$2.37780-3.65031I$	$5.77914+4.75975I$
$u=-0.233083-0.187405I$ $a=-2.22092-3.15779I$ $b=-0.074127+1.152242I$	$-1.67458+2.27154I$	$-1.49720-3.30379I$
$u=-0.233083+0.187405I$ $a=-2.22092+3.15779I$ $b=-0.074127-1.152242I$	$-1.67458-2.27154I$	$-1.49720+3.30379I$
$u=\ \ 0.275790-0.723292I$ $a=\ \ 1.02479+1.14628I$ $b=\ \ 1.111723-0.425093I$	$-3.41791-10.94268I$	$-2.27266+9.01140I$
$u=\ \ 0.275790+0.723292I$ $a=\ \ 1.02479-1.14628I$ $b=\ \ 1.111723+0.425093I$	$-3.41791+10.94268I$	$-2.27266-9.01140I$
$u=\ \ 0.656851$ $a=-3.16856$ $b=-2.08127$	2.63767	-12.2565
$u=\ \ 0.772109-1.166095I$ $a=-0.405436+0.424462I$ $b=\ \ 0.181922+0.800508I$	$-4.17810+2.37838I$	$-5.85782-3.30047I$
$u=\ \ 0.772109+1.166095I$ $a=-0.405436-0.424462I$ $b=\ \ 0.181922-0.800508I$	$-4.17810-2.37838I$	$-5.85782+3.30047I$
$u=\ \ 0.806733-1.141630I$ $a=-0.754142+0.044877I$ $b=-0.557159+0.897156I$	$-3.99183-4.14407I$	$-8.04295+6.13289I$

Solution to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.806733 + 1.141630I$ $a = -0.754142 - 0.044877I$ $b = -0.557159 - 0.897156I$	$-3.99183 + 4.14407I$	$-8.04295 - 6.13289I$
$u = 0.877139$ $a = 1.93092$ $b = 1.69369$	3.85452	16.3089
$u = 1.20245 - 1.45102I$ $a = 0.288986 - 0.037331I$ $b = 0.293323 - 0.464213I$	$0.40659 + 2.51099I$	$-3.33911 + 9.63855I$
$u = 1.20245 + 1.45102I$ $a = 0.288986 + 0.037331I$ $b = 0.293323 + 0.464213I$	$0.40659 - 2.51099I$	$-3.33911 - 9.63855I$
$u = 1.22356 - 0.97127I$ $a = -0.930879 + 0.286780I$ $b = -0.86044 + 1.25503I$	$-2.63766 - 10.07534I$	$0.70439 + 5.81996I$
$u = 1.22356 + 0.97127I$ $a = -0.930879 - 0.286780I$ $b = -0.86044 - 1.25503I$	$-2.63766 + 10.07534I$	$0.70439 - 5.81996I$

III. $I_3^u = \langle u^{30} - 19u^{29} + \cdots - 288u + 32,\ -5.18 \times 10^{13}u^{29} - 1.40 \times 10^{15}u^{28} + \cdots + 2.00 \times 10^{15}b - 3.95 \times 10^{16},\ 9.88 \times 10^{15}u^{29} - 1.88 \times 10^{17}u^{28} + \cdots + 1.60 \times 10^{16}a - 3.76 \times 10^{17} \rangle$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -0.617056u^{29} + 11.7500u^{28} + \cdots - 184.336u + 23.4641 \\ 0.0258964u^{29} + 0.699449u^{28} + \cdots - 154.248u + 19.7458 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.162762u^{29} + 2.53113u^{28} + \cdots - 53.0122u + 10.7183 \\ -0.561337u^{29} + 9.31571u^{28} + \cdots - 37.1570u + 5.20837 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u \\ u \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 2.83400u^{29} - 50.6803u^{28} + \cdots + 606.094u - 74.7838 \\ 4.18132u^{29} - 75.2895u^{28} + \cdots + 956.700u - 115.915 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -0.617056u^{29} + 11.7500u^{28} + \cdots - 184.336u + 23.4641 \\ -1.16558u^{29} + 20.5922u^{28} + \cdots - 181.452u + 20.5745 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.398575u^{29} - 6.78457u^{28} + \cdots - 15.8552u + 5.50993 \\ -0.227356u^{29} + 4.27889u^{28} + \cdots - 94.9937u + 12.4731 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 1.09621u^{29} - 17.4984u^{28} + \cdots - 39.4401u + 8.52082 \\ 0.878801u^{29} - 13.4911u^{28} + \cdots - 106.990u + 14.6412 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1.34732u^{29} - 24.6092u^{28} + \cdots + 350.606u - 41.1316 \\ 0.611146u^{29} - 10.6592u^{28} + \cdots + 158.912u - 18.7114 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.936834u^{29} - 16.1865u^{28} + \cdots + 130.777u - 13.8346 \\ 1.57979u^{29} - 27.2371u^{28} + \cdots + 160.866u - 17.5529 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.936834u^{29} - 16.1865u^{28} + \cdots + 130.777u - 13.8346 \\ 1.57979u^{29} - 27.2371u^{28} + \cdots + 160.866u - 17.5529 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes =unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.70202-1.35483I$ $a=\ 0.168744+0.101365I$ $b=\ 0.018870-0.299780I$	$0.40807-2.90881I$	$-2.85373+9.86808I$
$u=-0.70202+1.35483I$ $a=\ 0.168744-0.101365I$ $b=\ 0.018870+0.299780I$	$0.40807+2.90881I$	$-2.85373-9.86808I$
$u=-0.546613-0.065532I$ $a=\ 0.485420-0.807513I$ $b=-0.318255+0.409587I$	$-0.89506+1.64854I$	$-1.59568-3.27710I$
$u=-0.546613+0.065532I$ $a=\ 0.485420+0.807513I$ $b=-0.318255-0.409587I$	$-0.89506-1.64854I$	$-1.59568+3.27710I$
$u=\ 0.066198-0.347931I$ $a=\ 3.33738-0.23755I$ $b=\ 0.138276-1.176903I$	$-5.36512-5.09529I$	$-5.99835+3.87317I$
$u=\ 0.066198+0.347931I$ $a=\ 3.33738+0.23755I$ $b=\ 0.138276+1.176903I$	$-5.36512+5.09529I$	$-5.99835-3.87317I$
$u=\ 0.118097-0.913974I$ $a=-0.980785+0.224045I$ $b=\ 0.088944+0.922871I$	$-4.05984+4.16834I$	$-7.21533-9.98736I$
$u=\ 0.118097+0.913974I$ $a=-0.980785-0.224045I$ $b=\ 0.088944-0.922871I$	$-4.05984-4.16834I$	$-7.21533+9.98736I$
$u=\ 0.225426-0.690735I$ $a=-0.870847-0.960710I$ $b=-0.859908+0.384955I$	$-1.89594-2.12626I$	$-1.09090+3.98101I$
$u=\ 0.225426+0.690735I$ $a=-0.870847+0.960710I$ $b=-0.859908-0.384955I$	$-1.89594+2.12626I$	$-1.09090-3.98101I$

Solution to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.48241 - 1.42439I$ $a = -0.515210 + 0.188045I$ $b = 0.019306 + 0.824574I$	$-5.55355 + 1.97987I$	$-14.2442 - 2.1459I$
$u = 0.48241 + 1.42439I$ $a = -0.515210 - 0.188045I$ $b = 0.019306 - 0.824574I$	$-5.55355 - 1.97987I$	$-14.2442 + 2.1459I$
$u = 0.758038 - 0.703052I$ $a = 1.55468 - 0.22638I$ $b = 1.01935 - 1.26462I$	$-5.97727 + 1.40898I$	$-5.70108 + 0.75330I$
$u = 0.758038 + 0.703052I$ $a = 1.55468 + 0.22638I$ $b = 1.01935 + 1.26462I$	$-5.97727 - 1.40898I$	$-5.70108 - 0.75330I$
$u = 0.82135 - 1.49793I$ $a = 0.306254 - 0.359706I$ $b = -0.287272 - 0.754189I$	$-5.60137 + 11.70804I$	$-5.19142 - 9.20899I$
$u = 0.82135 + 1.49793I$ $a = 0.306254 + 0.359706I$ $b = -0.287272 + 0.754189I$	$-5.60137 - 11.70804I$	$-5.19142 + 9.20899I$
$u = 0.915628 - 0.496872I$ $a = 0.880016 - 0.076391I$ $b = 0.767811 - 0.507201I$	$1.54778 - 0.98121I$	$6.08132 + 1.87254I$
$u = 0.915628 + 0.496872I$ $a = 0.880016 + 0.076391I$ $b = 0.767811 + 0.507201I$	$1.54778 + 0.98121I$	$6.08132 - 1.87254I$
$u = 1.040761 - 0.325585I$ $a = 0.157218 - 1.220586I$ $b = -0.233778 - 1.321527I$	$-5.17774 - 5.90499I$	$-5.32978 + 5.57457I$
$u = 1.040761 + 0.325585I$ $a = 0.157218 + 1.220586I$ $b = -0.233778 + 1.321527I$	$-5.17774 + 5.90499I$	$-5.32978 - 5.57457I$

Solution to I_3^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.18063 - 0.86676I$ $a = 0.882838 - 0.145464I$ $b = 0.916228 - 0.936945I$	$3.99955 - 4.35128I$	$6.59095 + 3.41349I$
$u = 1.18063 + 0.86676I$ $a = 0.882838 + 0.145464I$ $b = 0.916228 + 0.936945I$	$3.99955 + 4.35128I$	$6.59095 - 3.41349I$
$u = 1.200334 - 0.708116I$ $a = -1.124048 + 0.541957I$ $b = -0.96546 + 1.44649I$	$-1.09814 - 9.90729I$	$4.86863 + 11.92532I$
$u = 1.200334 + 0.708116I$ $a = -1.124048 - 0.541957I$ $b = -0.96546 - 1.44649I$	$-1.09814 + 9.90729I$	$4.86863 - 11.92532I$
$u = 1.20710 - 1.01760I$ $a = 1.007442 - 0.230094I$ $b = 0.98194 - 1.30292I$	$-4.2629 - 20.2286I$	$-1.00488 + 10.53851I$
$u = 1.20710 + 1.01760I$ $a = 1.007442 + 0.230094I$ $b = 0.98194 + 1.30292I$	$-4.2629 + 20.2286I$	$-1.00488 - 10.53851I$
$u = 1.33161 - 1.00419I$ $a = -0.822863 + 0.339582I$ $b = -0.75472 + 1.27850I$	$-3.10815 - 10.44340I$	$-10.9618 + 15.8226I$
$u = 1.33161 + 1.00419I$ $a = -0.822863 - 0.339582I$ $b = -0.75472 - 1.27850I$	$-3.10815 + 10.44340I$	$-10.9618 - 15.8226I$
$u = 1.40106 - 1.04994I$ $a = -0.466238 + 0.116100I$ $b = -0.531326 + 0.652185I$	$2.49609 - 5.04306I$	$4.14627 + 10.34955I$
$u = 1.40106 + 1.04994I$ $a = -0.466238 - 0.116100I$ $b = -0.531326 - 0.652185I$	$2.49609 + 5.04306I$	$4.14627 - 10.34955I$

IV. $\boldsymbol{I_4^u = \langle 3b^{94} + 15b^{93} + \cdots - 14505b - 1083,\ 8.17 \times 10^{549}u + 5.23 \times 10^{547}b^{93} + \cdots - 1.27 \times 10^{552}b - 9.49 \times 10^{550},\ -1.93 \times 10^{549}b^{93} - 8.86 \times 10^{549}b^{92} + \cdots + 2.45 \times 10^{550}a + 1.33 \times 10^{552} \rangle}$

(i) Arc colorings

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.0786170b^{93} + 0.361429b^{92} + \cdots - 671.368b - 54.2370 \\ b \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 0.0316562b^{93} + 0.146350b^{92} + \cdots - 325.876b - 27.3807 \\ -b^2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ -0.00640241b^{93} - 0.0354286b^{92} + \cdots + 155.537b + 11.6186 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.00640241b^{93} - 0.0354286b^{92} + \cdots + 155.537b + 11.6186 \\ -0.00640241b^{93} - 0.0354286b^{92} + \cdots + 155.537b + 11.6186 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0.0405508b^{93} + 0.191268b^{92} + \cdots - 424.877b - 34.0508 \\ -0.00359727b^{93} - 0.0220380b^{92} + \cdots + 135.635b + 10.4370 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0786170b^{93} + 0.361429b^{92} + \cdots - 671.368b - 54.2370 \\ 0.0146129b^{93} + 0.0673372b^{92} + \cdots - 100.467b - 8.68691 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.0397851b^{93} + 0.177041b^{92} + \cdots - 190.472b - 12.2057 \\ 0.00213599b^{93} + 0.00243486b^{92} + \cdots + 91.0863b + 6.54978 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.0314439b^{93} + 0.138318b^{92} + \cdots - 130.339b - 6.46482 \\ 0.00747393b^{93} + 0.0342388b^{92} + \cdots - 66.2769b - 6.03243 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 0.0469659b^{93} + 0.227155b^{92} + \cdots - 607.535b - 54.9257 \\ 0.00279924b^{93} + 0.0154689b^{92} + \cdots - 27.9821b - 3.17255 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0849849b^{93} + 0.390552b^{92} + \cdots - 747.077b - 61.8800 \\ 0.00636788b^{93} + 0.0291233b^{92} + \cdots - 74.7084b - 7.64300 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0.0849849b^{93} + 0.390552b^{92} + \cdots - 747.077b - 61.8800 \\ 0.00636788b^{93} + 0.0291233b^{92} + \cdots - 74.7084b - 7.64300 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes =unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.757040$ $a=-2.31824$ $b=-2.25394$	3.08221	9.23067
$u=\ \ 0.053079+0.373306I$ $a=-0.336548+1.167527I$ $b=-2.13877-0.70149I$	$-1.67841+1.93955I$	$15.1921-13.7852I$
$u=\ \ 0.053079-0.373306I$ $a=-0.336548-1.167527I$ $b=-2.13877+0.70149I$	$-1.67841-1.93955I$	$15.1921+13.7852I$
$u=\ \ 0.482594-0.355179I$ $a=-1.65589-0.22590I$ $b=-1.61606-0.59445I$	$-1.98777-3.16700I$	$-4.3128+13.8397I$
$u=\ \ 0.482594+0.355179I$ $a=-1.65589+0.22590I$ $b=-1.61606+0.59445I$	$-1.98777+3.16700I$	$-4.3128-13.8397I$
$u=-0.818561-0.837650I$ $a=-1.234982-0.200385I$ $b=-1.10362-1.20641I$	$-5.08486+6.93394I$	$-6.67195-7.26599I$
$u=-0.818561+0.837650I$ $a=-1.234982+0.200385I$ $b=-1.10362+1.20641I$	$-5.08486-6.93394I$	$-6.67195+7.26599I$
$u=-1.070774-0.671723I$ $a=-1.070373-0.461159I$ $b=-0.958668-0.712289I$	$-0.08320+5.80714I$	$5.40752-6.37276I$
$u=-1.070774+0.671723I$ $a=-1.070373+0.461159I$ $b=-0.958668+0.712289I$	$-0.08320-5.80714I$	$5.40752+6.37276I$
$u=-1.13715-0.99385I$ $a=-1.089810-0.218204I$ $b=-0.94020-1.19251I$	$-3.74054+11.30755I$	$-5.50352-11.29218I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.13715+0.99385I$ $a=-1.089810+0.218204I$ $b=-0.94020+1.19251I$	$-3.74054-11.30755I$	$-5.50352+11.29218I$
$u=-0.652087-0.253975I$ $a=-2.11561+1.71319I$ $b=-0.936652-0.569551I$	$-2.00176+11.29875I$	$3.86102-10.57011I$
$u=-0.652087+0.253975I$ $a=-2.11561-1.71319I$ $b=-0.936652+0.569551I$	$-2.00176-11.29875I$	$3.86102+10.57011I$
$u=-0.618555+0.355905I$ $a=-1.39832+0.73211I$ $b=-0.899081-0.336787I$	$-0.26046-4.20130I$	$2.88530+9.27658I$
$u=-0.618555-0.355905I$ $a=-1.39832-0.73211I$ $b=-0.899081+0.336787I$	$-0.26046+4.20130I$	$2.88530-9.27658I$
$u=-0.514809-0.936848I$ $a=-0.763231-0.299947I$ $b=-0.89733-1.22784I$	$-5.74704+2.00651I$	$-10.31615-2.77027I$
$u=-0.514809+0.936848I$ $a=-0.763231+0.299947I$ $b=-0.89733+1.22784I$	$-5.74704-2.00651I$	$-10.31615+2.77027I$
$u=0.482594+0.355179I$ $a=-1.58409+2.39763I$ $b=-0.879356-0.479120I$	$-1.98777+3.16700I$	$-4.3128-13.8397I$
$u=0.482594-0.355179I$ $a=-1.58409-2.39763I$ $b=-0.879356+0.479120I$	$-1.98777-3.16700I$	$-4.3128+13.8397I$
$u=0.805900-0.453398I$ $a=-0.734775-0.125038I$ $b=-0.866819-0.843977I$	$1.44210-5.12633I$	$2.94088+9.83860I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 0.805900 + 0.453398I$ $a = -0.734775 + 0.125038I$ $b = -0.866819 + 0.843977I$	$1.44210 + 5.12633I$	$2.94088 - 9.83860I$
$u = -0.629670 + 0.016055I$ $a = -1.68452 + 1.55954I$ $b = -0.798496 - 0.222976I$	$3.87155 - 2.62212I$	$10.88486 + 3.68775I$
$u = -0.629670 - 0.016055I$ $a = -1.68452 - 1.55954I$ $b = -0.798496 + 0.222976I$	$3.87155 + 2.62212I$	$10.88486 - 3.68775I$
$u = -1.12892 - 1.06195I$ $a = -0.884866 + 0.104404I$ $b = -0.796556 - 1.025075I$	$0.77111 + 11.39919I$	$2.82858 - 11.01059I$
$u = -1.12892 + 1.06195I$ $a = -0.884866 - 0.104404I$ $b = -0.796556 + 1.025075I$	$0.77111 - 11.39919I$	$2.82858 + 11.01059I$
$u = \quad 0.805900 + 0.453398I$ $a = -0.369468 + 1.255109I$ $b = -0.648847 - 0.232377I$	$1.44210 + 5.12633I$	$2.94088 - 9.83860I$
$u = \quad 0.805900 - 0.453398I$ $a = -0.369468 - 1.255109I$ $b = -0.648847 + 0.232377I$	$1.44210 - 5.12633I$	$2.94088 + 9.83860I$
$u = \quad 0.605265 + 1.174812I$ $a = -0.405523 - 0.170320I$ $b = -0.639115 - 1.105943I$	$-4.45949 + 2.25311I$	$-9.64335 - 2.44283I$
$u = \quad 0.605265 - 1.174812I$ $a = -0.405523 + 0.170320I$ $b = -0.639115 + 1.105943I$	$-4.45949 - 2.25311I$	$-9.64335 + 2.44283I$
$u = \quad 1.22570 + 1.22664I$ $a = -0.448643 - 0.008380I$ $b = -0.574714 - 1.055860I$	$-2.23455 + 6.04607I$	$-9.9274 - 11.4207I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \quad 1.22570 - 1.22664I$ $a = -0.448643 + 0.008380I$ $b = -0.574714 + 1.055860I$	$-2.23455 - 6.04607I$	$-9.9274 + 11.4207I$
$u = -1.35575 - 1.02244I$ $a = -0.596350 - 0.410664I$ $b = -0.569928 - 0.715005I$	$-2.60428 + 5.02841I$	$-3.35135 - 8.52552I$
$u = -1.35575 + 1.02244I$ $a = -0.596350 + 0.410664I$ $b = -0.569928 + 0.715005I$	$-2.60428 - 5.02841I$	$-3.35135 + 8.52552I$
$u = \quad 1.22570 + 1.22664I$ $a = -0.664979 - 0.195943I$ $b = -0.539623 - 0.560596I$	$-2.23455 + 6.04607I$	$-9.9274 - 11.4207I$
$u = \quad 1.22570 - 1.22664I$ $a = -0.664979 + 0.195943I$ $b = -0.539623 + 0.560596I$	$-2.23455 - 6.04607I$	$-9.9274 + 11.4207I$
$u = -0.621232 - 0.200124I$ $a = \quad 0.115956 - 0.480776I$ $b = -0.50509 - 1.43287I$	$-1.33437 - 1.73522I$	$1.73147 - 1.18204I$
$u = -0.621232 + 0.200124I$ $a = \quad 0.115956 + 0.480776I$ $b = -0.50509 + 1.43287I$	$-1.33437 + 1.73522I$	$1.73147 + 1.18204I$
$u = \quad 0.053079 + 0.373306I$ $a = -2.64036 + 5.35383I$ $b = -0.453709 - 0.063664I$	$-1.67841 + 1.93955I$	$15.1921 - 13.7852I$
$u = \quad 0.053079 - 0.373306I$ $a = -2.64036 - 5.35383I$ $b = -0.453709 + 0.063664I$	$-1.67841 - 1.93955I$	$15.1921 + 13.7852I$
$u = -0.84453 + 1.32043I$ $a = \quad 0.406152 - 0.347547I$ $b = -0.365705 - 0.694890I$	$-4.71436 + 3.28575I$	$-12.0478 - 10.0322I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.84453-1.32043I$ $a=\ \ 0.406152+0.347547I$ $b=-0.365705+0.694890I$	$-4.71436-3.28575I$	$-12.0478+10.0322I$
$u=-1.048211+0.669398I$ $a=\ \ 0.250476-0.625091I$ $b=-0.352779-1.012222I$	$-4.37399+1.07626I$	$-9.22616+2.29912I$
$u=-1.048211-0.669398I$ $a=\ \ 0.250476+0.625091I$ $b=-0.352779+1.012222I$	$-4.37399-1.07626I$	$-9.22616-2.29912I$
$u=-1.30130-1.15710I$ $a=-0.231845+0.137983I$ $b=-0.350949-0.607158I$	$0.65352-2.88892I$	$10.73565+8.41815I$
$u=-1.30130+1.15710I$ $a=-0.231845-0.137983I$ $b=-0.350949+0.607158I$	$0.65352+2.88892I$	$10.73565-8.41815I$
$u=\ \ 1.51699+0.20467I$ $a=-0.127332-0.221844I$ $b=-0.228638-1.317032I$	$-1.20562+5.42950I$	$5.73944-6.25923I$
$u=\ \ 1.51699-0.20467I$ $a=-0.127332+0.221844I$ $b=-0.228638+1.317032I$	$-1.20562-5.42950I$	$5.73944+6.25923I$
$u=-0.621232+0.200124I$ $a=\ \ 1.40977-1.85235I$ $b=-0.168251-0.275468I$	$-1.33437+1.73522I$	$1.73147+1.18204I$
$u=-0.621232-0.200124I$ $a=\ \ 1.40977+1.85235I$ $b=-0.168251+0.275468I$	$-1.33437-1.73522I$	$1.73147-1.18204I$
$u=\ \ 1.51699+0.20467I$ $a=-0.263065-0.832697I$ $b=-0.147756-0.362596I$	$-1.20562+5.42950I$	$5.73944-6.25923I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.51699 - 0.20467I$ $a = -0.263065 + 0.832697I$ $b = -0.147756 + 0.362596I$	$-1.20562 - 5.42950I$	$5.73944 + 6.25923I$
$u = 0.605265 + 1.174812I$ $a = -0.965406 + 0.046636I$ $b = -0.045355 - 0.579502I$	$-4.45949 + 2.25311I$	$-9.64335 - 2.44283I$
$u = 0.605265 - 1.174812I$ $a = -0.965406 - 0.046636I$ $b = -0.045355 + 0.579502I$	$-4.45949 - 2.25311I$	$-9.64335 + 2.44283I$
$u = 0.472704 - 0.956320I$ $a = 1.55642 + 0.37675I$ $b = 0.067556 - 0.751847I$	$-5.61718 - 10.70298I$	$-5.64531 + 8.75378I$
$u = 0.472704 + 0.956320I$ $a = 1.55642 - 0.37675I$ $b = 0.067556 + 0.751847I$	$-5.61718 + 10.70298I$	$-5.64531 - 8.75378I$
$u = -0.514809 + 0.936848I$ $a = 1.41090 + 0.18251I$ $b = 0.111914 - 0.869447I$	$-5.74704 - 2.00651I$	$-10.31615 + 2.77027I$
$u = -0.514809 - 0.936848I$ $a = 1.41090 - 0.18251I$ $b = 0.111914 + 0.869447I$	$-5.74704 + 2.00651I$	$-10.31615 - 2.77027I$
$u = -0.84453 - 1.32043I$ $a = -0.247766 - 0.435426I$ $b = 0.115904 - 0.829812I$	$-4.71436 - 3.28575I$	$-12.0478 + 10.0322I$
$u = -0.84453 + 1.32043I$ $a = -0.247766 + 0.435426I$ $b = 0.115904 + 0.829812I$	$-4.71436 + 3.28575I$	$-12.0478 - 10.0322I$
$u = -1.048211 - 0.669398I$ $a = -0.198981 - 0.838595I$ $b = 0.155883 - 0.822895I$	$-4.37399 - 1.07626I$	$-9.22616 - 2.29912I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.048211+0.669398I$ $a=-0.198981+0.838595I$ $b=\ \ 0.155883+0.822895I$	$-4.37399+1.07626I$	$-9.22616+2.29912I$
$u=-1.35575+1.02244I$ $a=\ \ 0.521505-0.134095I$ $b=\ \ 0.388625-1.166489I$	$-2.60428-5.02841I$	$-3.35135+8.52552I$
$u=-1.35575-1.02244I$ $a=\ \ 0.521505+0.134095I$ $b=\ \ 0.388625+1.166489I$	$-2.60428+5.02841I$	$-3.35135-8.52552I$
$u=\ \ 0.539485-1.107736I$ $a=\ \ 0.582391+0.876854I$ $b=\ \ 0.401942-0.724037I$	$-0.215372+0.545445I$	$3.71028-0.03483I$
$u=\ \ 0.539485+1.107736I$ $a=\ \ 0.582391-0.876854I$ $b=\ \ 0.401942+0.724037I$	$-0.215372-0.545445I$	$3.71028+0.03483I$
$u=-1.30130+1.15710I$ $a=\ \ 0.382299-0.126642I$ $b=\ \ 0.461361-0.088710I$	$0.65352+2.88892I$	$10.73565-8.41815I$
$u=-1.30130-1.15710I$ $a=\ \ 0.382299+0.126642I$ $b=\ \ 0.461361+0.088710I$	$0.65352-2.88892I$	$10.73565+8.41815I$
$u=-0.618555+0.355905I$ $a=\ \ 0.856636+1.037367I$ $b=\ \ 0.604374-0.950521I$	$-0.26046-4.20130I$	$2.88530+9.27658I$
$u=-0.618555-0.355905I$ $a=\ \ 0.856636-1.037367I$ $b=\ \ 0.604374+0.950521I$	$-0.26046+4.20130I$	$2.88530-9.27658I$
$u=\ \ 0.506870+0.008508I$ $a=\ \ 4.52767+1.22416I$ $b=\ \ 0.654491-0.229597I$	$-1.52745-1.61554I$	$-1.60105-0.11717I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.506870 - 0.008508I$ $a = 4.52767 - 1.22416I$ $b = 0.654491 + 0.229597I$	$-1.52745 + 1.61554I$	$-1.60105 + 0.11717I$
$u = -1.070774 + 0.671723I$ $a = 0.941924 - 0.074317I$ $b = 0.83636 - 1.21279I$	$-0.08320 - 5.80714I$	$5.40752 + 6.37276I$
$u = -1.070774 - 0.671723I$ $a = 0.941924 + 0.074317I$ $b = 0.83636 + 1.21279I$	$-0.08320 + 5.80714I$	$5.40752 - 6.37276I$
$u = -0.818561 + 0.837650I$ $a = 1.395302 - 0.045980I$ $b = 0.84306 - 1.19851I$	$-5.08486 - 6.93394I$	$-6.67195 + 7.26599I$
$u = -0.818561 - 0.837650I$ $a = 1.395302 + 0.045980I$ $b = 0.84306 + 1.19851I$	$-5.08486 + 6.93394I$	$-6.67195 - 7.26599I$
$u = 0.911487 - 0.184056I$ $a = 1.025633 + 0.074613I$ $b = 0.932887 - 0.559511I$	$1.93536 - 0.83864I$	$6.21439 + 1.02495I$
$u = 0.911487 + 0.184056I$ $a = 1.025633 - 0.074613I$ $b = 0.932887 + 0.559511I$	$1.93536 + 0.83864I$	$6.21439 - 1.02495I$
$u = 0.911487 - 0.184056I$ $a = 1.102476 - 0.391221I$ $b = 0.948584 - 0.120765I$	$1.93536 - 0.83864I$	$6.21439 + 1.02495I$
$u = 0.911487 + 0.184056I$ $a = 1.102476 + 0.391221I$ $b = 0.948584 + 0.120765I$	$1.93536 + 0.83864I$	$6.21439 - 1.02495I$
$u = -1.13715 + 0.99385I$ $a = 0.988376 - 0.184864I$ $b = 1.02241 - 1.33124I$	$-3.74054 - 11.30755I$	$-5.50352 + 11.29218I$

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.13715-0.99385I$ $a=\ \ 0.988376+0.184864I$ $b=\ \ 1.02241+1.33124I$	$-3.74054+11.30755I$	$-5.50352-11.29218I$
$u=-0.629670+0.016055I$ $a=\ \ 1.258271+0.386198I$ $b=\ \ 1.03565-1.00904I$	$3.87155-2.62212I$	$10.88486+3.68775I$
$u=-0.629670-0.016055I$ $a=\ \ 1.258271-0.386198I$ $b=\ \ 1.03565+1.00904I$	$3.87155+2.62212I$	$10.88486-3.68775I$
$u=\ \ 0.472704-0.956320I$ $a=\ \ 0.659879-0.255533I$ $b=\ \ 1.09602-1.31035I$	$-5.61718-10.70298I$	$-5.64531+8.75378I$
$u=\ \ 0.472704+0.956320I$ $a=\ \ 0.659879+0.255533I$ $b=\ \ 1.09602+1.31035I$	$-5.61718+10.70298I$	$-5.64531-8.75378I$
$u=-1.12892+1.06195I$ $a=\ \ 0.827502-0.129601I$ $b=\ \ 1.109816-0.821819I$	$0.77111-11.39919I$	$2.82858+11.01059I$
$u=-1.12892-1.06195I$ $a=\ \ 0.827502+0.129601I$ $b=\ \ 1.109816+0.821819I$	$0.77111+11.39919I$	$2.82858-11.01059I$
$u=\ \ 0.539485-1.107736I$ $a=\ \ 0.671147+0.035991I$ $b=\ \ 1.285514-0.172086I$	$-0.215372+0.545445I$	$3.71028-0.03483I$
$u=\ \ 0.539485+1.107736I$ $a=\ \ 0.671147-0.035991I$ $b=\ \ 1.285514+0.172086I$	$-0.215372-0.545445I$	$3.71028+0.03483I$
$u=-0.757040$ $a=\ \ 2.97730$ $b=\ \ 1.75500$	3.08221	9.23067

Solution to I_4^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.652087-0.253975I$		
$a=\ \ 1.54257+0.27262I$	$-2.00176+11.29875I$	$3.86102-10.57011I$
$b=\ \ 1.81467-0.57983I$		
$u=-0.652087+0.253975I$		
$a=\ \ 1.54257-0.27262I$	$-2.00176-11.29875I$	$3.86102+10.57011I$
$b=\ \ 1.81467+0.57983I$		
$u=\ \ 0.506870-0.008508I$		
$a=\ \ 1.283276+0.474511I$	$-1.52745+1.61554I$	$-1.60105+0.11717I$
$b=\ \ 2.28452-0.65901I$		
$u=\ \ 0.506870+0.008508I$		
$a=\ \ 1.283276-0.474511I$	$-1.52745-1.61554I$	$-1.60105-0.11717I$
$b=\ \ 2.28452+0.65901I$		

V. u-Polynomials

Crossings	u-Polynomials at each crossings
c_1	$(u+1)^4(u^{16}-9u^{15}+\cdots-33u+9)$ $(u^{30}-26u^{29}+\cdots-12288u+1024)$ $(27+193u+911u^2+3087u^3+8926u^4+2.24\times10^4u^5+5.12\times10^4u^6+1.06\times10^5u^7+2.06$
c_2	$(u^2+3u+3)^2(u^{16}-6u^{15}+\cdots+u+1)$ $(u^{30}+29u^{29}+\cdots+5632u+512)$ $(-3+30u-127u^2+228u^3+210u^4-1872u^5+2748u^6+3857u^7-1.88\times10^4u^8+1.89\times10$
c_3, c_{10}	$(3u^4+3u^3+\cdots-5u+1)(u^{16}+4u^{15}+\cdots+2u-1)$ $(u^{30}-u^{28}+\cdots-6u+1)(3u^{94}+24u^{93}+\cdots+45u-1)$
c_4	$(3u^4+4u^2+3u+3)(u^{16}-u^{14}+\cdots+3u-1)(u^{30}+8u^{28}+\cdots+3u+1)$ $(3u^{94}+15u^{93}+\cdots-14505u-1083)$
c_5	$(3u^4+4u^2+3u+3)(u^{16}+u^{15}+\cdots+u^2-1)(u^{30}-u^{29}+\cdots-2u+1)$ $(3u^{94}+3u^{93}+\cdots-93u-3)$
c_6	$(3u^4-3u^3+\cdots+2u+7)(u^{16}+u^{15}+\cdots+2u-1)$ $(u^{30}-u^{29}+\cdots+46u+27)$ $(3u^{94}+6u^{93}+\cdots+9495938u-2259497)$
c_7	$(u^2-3u+3)^2(u^{16}+8u^{15}+\cdots-3u^2+1)$ $(u^{30}-19u^{29}+\cdots-288u+32)$ $(3+18u+34u^2+5u^3-114u^4-558u^5-1329u^6+147u^7+6235u^8+6490u^9-1.39\times10^4u^1$
c_8	$(3u^4-3u^3+\cdots+2u+7)(u^{16}+u^{15}+\cdots+2u-1)$ $(u^{30}-u^{29}+\cdots+46u+27)$ $(3u^{94}+6u^{93}+\cdots+9495938u-2259497)$
c_9	$(3u^4+4u^2+3u+3)(u^{16}+u^{15}+\cdots+u^2-1)(u^{30}-u^{29}+\cdots-2u+1)$ $(3u^{94}+3u^{93}+\cdots-93u-3)$
c_{11}	$(3u^4+4u^2+3u+3)(u^{16}-u^{14}+\cdots+3u-1)(u^{30}+8u^{28}+\cdots+3u+1)$ $(3u^{94}+15u^{93}+\cdots-14505u-1083)$

VI. Riley Polynomials

Crossings	Riley Polynomials at each crossings
c_1	$(y-1)^4(y^{16}-13y^{15}+\cdots-27y+81)$ $(y^{30}-2y^{29}+\cdots+12976128y+1048576)$ $(-729-1.19\times10^4y-1.20\times10^5y^2-8.69\times10^5y^3-4.95\times10^6y^4-2.31\times10^7y^5-9.13\times1$
c_2	$(y^2-3y+9)^2(y^{16}-10y^{15}+\cdots-15y+1)$ $(y^{30}-11y^{29}+\cdots+11665408y+262144)$ $(-9+138y-1189y^2+9492y^3-8.10\times10^4y^4+6.13\times10^5y^5-3.69\times10^6y^6+1.75\times10^7y^7$
c_3, c_{10}	$(9y^4+33y^3+\cdots-11y+1)(y^{16}+2y^{14}+\cdots-26y+1)$ $(y^{30}-2y^{29}+\cdots-10y+1)(9y^{94}-156y^{93}+\cdots-451y+1)$
c_4	$(9y^4+24y^3+\cdots+15y+9)(y^{16}-2y^{15}+\cdots+13y+1)$ $(y^{30}+16y^{29}+\cdots+33y+1)$ $(9y^{94}-165y^{93}+\cdots+14483427y+1172889)$
c_5	$(9y^4+24y^3+\cdots+15y+9)(y^{16}-3y^{15}+\cdots-2y+1)$ $(y^{30}+3y^{29}+\cdots+6y+1)(9y^{94}+195y^{93}+\cdots-885y+9)$
c_6	$(9y^4-21y^3+\cdots-32y+49)(y^{16}-7y^{15}+\cdots+8y^2+1)$ $(y^{30}-13y^{29}+\cdots-5896y+729)$ $(9y^{94}-318y^{93}+\cdots-181297638508792y+5105326693009)$
c_7	$(y^2-3y+9)^2(y^{16}+2y^{15}+\cdots-6y+1)$ $(y^{30}+y^{29}+\cdots+11776y+1024)$ $(-9+120y-292y^2-4337y^3+3.97\times10^4y^4-9.74\times10^4y^5-6.43\times10^5y^6+7.65\times10^6y^7-$
c_8	$(9y^4-21y^3+\cdots-32y+49)(y^{16}-7y^{15}+\cdots+8y^2+1)$ $(y^{30}-13y^{29}+\cdots-5896y+729)$ $(9y^{94}-318y^{93}+\cdots-181297638508792y+5105326693009)$
c_9	$(9y^4+24y^3+\cdots+15y+9)(y^{16}-3y^{15}+\cdots-2y+1)$ $(y^{30}+3y^{29}+\cdots+6y+1)(9y^{94}+195y^{93}+\cdots-885y+9)$
c_{11}	$(9y^4+24y^3+\cdots+15y+9)(y^{16}-2y^{15}+\cdots+13y+1)$ $(y^{30}+16y^{29}+\cdots+33y+1)$ $(18y^{94}-330y^{93}+\cdots+28966854y+2345778)$