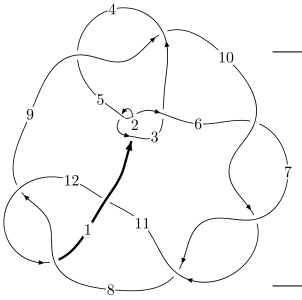
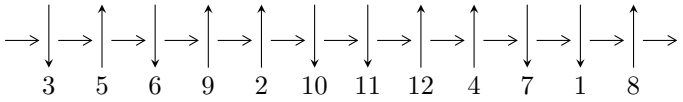
$12a_{0018}$ $(K12a_{0018})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

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

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$\begin{aligned} I_1^u = \langle & -2.11930 \times 10^{181} u^{84} - 3.51393 \times 10^{181} u^{83} + \cdots + 4.67589 \times 10^{182} b - 7.31431 \times 10^{181}, \\ & - 1.07455 \times 10^{183} u^{84} - 2.39844 \times 10^{183} u^{83} + \cdots + 6.82681 \times 10^{183} a + 9.14213 \times 10^{183}, \\ & u^{85} + 3u^{84} + \cdots - 68u + 73 \rangle \\ I_2^u = \langle & b - a - 1,\ a^2 + a + 1,\ u^5 + u^4 - 2u^3 - u^2 + u - 1 \rangle \end{aligned}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 95 representations.

[1]The 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. $\boldsymbol{I_1^u = \langle -2.12 \times 10^{181} u^{84} - 3.51 \times 10^{181} u^{83} + \cdots + 4.68 \times 10^{182} b - 7.31 \times 10^{181},\ -1.07 \times 10^{183} u^{84} - 2.40 \times 10^{183} u^{83} + \cdots + 6.83 \times 10^{183} a + 9.14 \times 10^{183},\ u^{85} + 3u^{84} + \cdots - 68u + 73 \rangle}$

(i) Arc colorings

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

$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} -u \\ -u^3 + u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0.157402u^{84} + 0.351327u^{83} + \cdots - 11.2870u - 1.33915 \\ 0.0453239u^{84} + 0.0751498u^{83} + \cdots - 5.90882u + 0.156426 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u^2 + 1 \\ -u^4 + 2u^2 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -0.0973095u^{84} - 0.243071u^{83} + \cdots + 12.7128u + 2.17784 \\ -0.0386728u^{84} - 0.0840276u^{83} + \cdots + 7.17860u + 1.28714 \end{pmatrix}$$

$$a_3 = \begin{pmatrix} 0.108861u^{84} + 0.277515u^{83} + \cdots + 0.921763u - 2.89582 \\ 0.0594798u^{84} + 0.134387u^{83} + \cdots - 4.79958u - 2.53940 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 0.0493808u^{84} + 0.143127u^{83} + \cdots + 5.72134u - 0.356420 \\ 0.0594798u^{84} + 0.134387u^{83} + \cdots - 4.79958u - 2.53940 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 0.0447060u^{84} + 0.145350u^{83} + \cdots - 11.0547u - 5.38827 \\ -0.0550150u^{84} - 0.0997524u^{83} + \cdots + 2.36727u - 0.651555 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.00892540u^{84} + 0.0282388u^{83} + \cdots + 11.2989u - 1.76034 \\ -0.0540602u^{84} - 0.0446167u^{83} + \cdots + 2.04432u - 7.27963 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0.116080u^{84} + 0.273107u^{83} + \cdots - 17.9315u - 4.58050 \\ -0.0000810727u^{84} - 0.00974982u^{83} + \cdots - 2.36092u + 0.624367 \end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.0954738u^{84} - 0.244184u^{83} + \cdots - 10.0507u - 7.23539$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{85}+44u^{84}+\cdots-7u-1$
c_2, c_5	$u^{85}+6u^{84}+\cdots-7u-1$
c_3	$u^{85}-6u^{84}+\cdots+20709u-4073$
c_4, c_9	$u^{85}+u^{84}+\cdots+2048u+1024$
c_6, c_7, c_{10}	$u^{85}+3u^{84}+\cdots-68u+73$
c_8, c_{12}	$u^{85}-3u^{84}+\cdots-2u+1$
c_{11}	$u^{85}+49u^{84}+\cdots-8u-1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{85}+88y^{83}+\cdots-31y-1$
c_2, c_5	$y^{85}+44y^{84}+\cdots-7y-1$
c_3	$y^{85}-44y^{84}+\cdots-163840279y-16589329$
c_4, c_9	$y^{85}+55y^{84}+\cdots-20971520y-1048576$
c_6, c_7, c_{10}	$y^{85}-95y^{84}+\cdots+44336y-5329$
c_8, c_{12}	$y^{85}+49y^{84}+\cdots-8y-1$
c_{11}	$y^{85}-23y^{84}+\cdots-36y-1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.073727+0.986667I$ $a=\ \ 0.936097-0.544165I$ $b=-0.476518-1.115450I$	$-2.14101+5.91470I$	0
$u=-0.073727-0.986667I$ $a=\ \ 0.936097+0.544165I$ $b=-0.476518+1.115450I$	$-2.14101-5.91470I$	0
$u=-0.664796+0.770883I$ $a=\ \ 1.38906-1.12816I$ $b=-0.517064-1.146120I$	$-3.42165+7.23133I$	0
$u=-0.664796-0.770883I$ $a=\ \ 1.38906+1.12816I$ $b=-0.517064+1.146120I$	$-3.42165-7.23133I$	0
$u=-0.319887+0.971190I$ $a=\ \ 0.524620+0.488014I$ $b=-0.441470+1.103310I$	$-2.42258-1.55579I$	0
$u=-0.319887-0.971190I$ $a=\ \ 0.524620-0.488014I$ $b=-0.441470-1.103310I$	$-2.42258+1.55579I$	0
$u=-0.849401+0.579207I$ $a=-0.146968+0.900614I$ $b=-0.360653+1.131480I$	$-4.52915-0.73034I$	0
$u=-0.849401-0.579207I$ $a=-0.146968-0.900614I$ $b=-0.360653-1.131480I$	$-4.52915+0.73034I$	0
$u=-0.810927+0.493483I$ $a=-0.86574+2.36356I$ $b=\ \ 0.493182+1.063790I$	$-2.34026+6.33705I$	0
$u=-0.810927-0.493483I$ $a=-0.86574-2.36356I$ $b=\ \ 0.493182-1.063790I$	$-2.34026-6.33705I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.607526+0.641631I$ $a=\ \ 0.329627-0.477034I$ $b=-0.707421+0.221133I$	$-0.75202+2.57285I$	0
$u=-0.607526-0.641631I$ $a=\ \ 0.329627+0.477034I$ $b=-0.707421-0.221133I$	$-0.75202-2.57285I$	0
$u=\ \ 0.680815+0.531192I$ $a=-0.475784-0.021071I$ $b=\ \ 0.656015-0.711309I$	$-0.52068-4.98776I$	$0.+10.01892I$
$u=\ \ 0.680815-0.531192I$ $a=-0.475784+0.021071I$ $b=\ \ 0.656015+0.711309I$	$-0.52068+4.98776I$	$0.-10.01892I$
$u=\ \ 0.947774+0.683916I$ $a=\ \ 0.056456+0.361169I$ $b=-0.766931-0.259594I$	$-2.68653-6.83343I$	0
$u=\ \ 0.947774-0.683916I$ $a=\ \ 0.056456-0.361169I$ $b=-0.766931+0.259594I$	$-2.68653+6.83343I$	0
$u=-0.612245+0.547885I$ $a=\ \ 0.732372+0.265000I$ $b=\ \ 0.473509-0.307517I$	$-0.28355+2.24163I$	$0.-4.15869I$
$u=-0.612245-0.547885I$ $a=\ \ 0.732372-0.265000I$ $b=\ \ 0.473509+0.307517I$	$-0.28355-2.24163I$	$0.+4.15869I$
$u=-0.426296+0.697949I$ $a=\ \ 0.918803-0.215162I$ $b=-0.272552-0.382600I$	$-0.09111+1.93411I$	$0.-2.82382I$
$u=-0.426296-0.697949I$ $a=\ \ 0.918803+0.215162I$ $b=-0.272552+0.382600I$	$-0.09111-1.93411I$	$0.+2.82382I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.081024+0.790295I$ $a=\ \ 0.754750-0.090029I$ $b=-0.514454+0.225014I$	$0.35550+1.80819I$	$1.92357-4.64833I$
$u=-0.081024-0.790295I$ $a=\ \ 0.754750+0.090029I$ $b=-0.514454-0.225014I$	$0.35550-1.80819I$	$1.92357+4.64833I$
$u=-1.212560+0.159917I$ $a=\ \ 0.983042-0.860730I$ $b=-0.215414-0.748399I$	$-2.86425+1.08010I$	0
$u=-1.212560-0.159917I$ $a=\ \ 0.983042+0.860730I$ $b=-0.215414+0.748399I$	$-2.86425-1.08010I$	0
$u=\ \ 1.114220+0.566791I$ $a=-0.040385-1.282380I$ $b=-0.304170-1.134360I$	$-6.91731-3.67064I$	0
$u=\ \ 1.114220-0.566791I$ $a=-0.040385+1.282380I$ $b=-0.304170+1.134360I$	$-6.91731+3.67064I$	0
$u=\ \ 1.000140+0.768979I$ $a=\ \ 1.20857+1.42294I$ $b=-0.540479+1.152630I$	$-5.31540-11.73820I$	0
$u=\ \ 1.000140-0.768979I$ $a=\ \ 1.20857-1.42294I$ $b=-0.540479-1.152630I$	$-5.31540+11.73820I$	0
$u=\ \ 0.701004+0.167089I$ $a=-1.04043-0.96974I$ $b=-0.384455-1.189130I$	$-8.68594+3.54169I$	$-10.91031-3.61355I$
$u=\ \ 0.701004-0.167089I$ $a=-1.04043+0.96974I$ $b=-0.384455+1.189130I$	$-8.68594-3.54169I$	$-10.91031+3.61355I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.566939 + 0.421860I$ $a = -1.063890 + 0.895906I$ $b = 0.625120 + 0.883968I$	$-1.019110 - 0.019860I$	$-7.10656 + 3.63163I$
$u = 0.566939 - 0.421860I$ $a = -1.063890 - 0.895906I$ $b = 0.625120 - 0.883968I$	$-1.019110 + 0.019860I$	$-7.10656 - 3.63163I$
$u = 1.324570 + 0.153827I$ $a = 0.888954 - 1.043400I$ $b = -0.219128 - 0.834236I$	$-6.48791 - 3.11039I$	0
$u = 1.324570 - 0.153827I$ $a = 0.888954 + 1.043400I$ $b = -0.219128 + 0.834236I$	$-6.48791 + 3.11039I$	0
$u = -0.629066 + 0.209720I$ $a = -0.61598 - 3.22202I$ $b = 0.372593 - 1.046640I$	$-3.20124 - 0.40319I$	$-7.42049 + 0.02513I$
$u = -0.629066 - 0.209720I$ $a = -0.61598 + 3.22202I$ $b = 0.372593 + 1.046640I$	$-3.20124 + 0.40319I$	$-7.42049 - 0.02513I$
$u = 0.162545 + 0.544040I$ $a = 0.451845 - 0.799524I$ $b = 0.472309 + 0.536803I$	$0.99323 + 1.21291I$	$4.59661 - 3.40071I$
$u = 0.162545 - 0.544040I$ $a = 0.451845 + 0.799524I$ $b = 0.472309 - 0.536803I$	$0.99323 - 1.21291I$	$4.59661 + 3.40071I$
$u = -1.45267$ $a = 0.691122$ $b = 0.654332$	-3.81338	0
$u = -0.191578 + 0.506538I$ $a = -0.351792 - 0.699095I$ $b = 0.549301 + 0.652031I$	$0.95141 + 1.54224I$	$3.64572 - 4.77993I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.191578-0.506538I$ $a=-0.351792+0.699095I$ $b=\ \ 0.549301-0.652031I$	$0.95141-1.54224I$	$3.64572+4.77993I$
$u=\ \ 0.524049+0.111794I$ $a=-0.076692+1.324640I$ $b=-0.776293-0.119585I$	$-4.80858-0.38289I$	$-6.98989-0.09954I$
$u=\ \ 0.524049-0.111794I$ $a=-0.076692-1.324640I$ $b=-0.776293+0.119585I$	$-4.80858+0.38289I$	$-6.98989+0.09954I$
$u=\ \ 0.475918+0.244964I$ $a=\ \ 2.65951+1.54249I$ $b=-0.495221+1.182570I$	$-7.91886-5.05331I$	$-9.98522+3.52204I$
$u=\ \ 0.475918-0.244964I$ $a=\ \ 2.65951-1.54249I$ $b=-0.495221-1.182570I$	$-7.91886+5.05331I$	$-9.98522-3.52204I$
$u=\ \ 1.47833+0.03589I$ $a=-0.405383-0.632644I$ $b=\ \ 0.744958-0.816857I$	$-4.46882-2.78743I$	0
$u=\ \ 1.47833-0.03589I$ $a=-0.405383+0.632644I$ $b=\ \ 0.744958+0.816857I$	$-4.46882+2.78743I$	0
$u=\ \ 0.408053+0.323773I$ $a=-1.44582-2.40333I$ $b=\ \ 0.478977-0.992998I$	$-0.32720-2.78409I$	$1.83631+3.63493I$
$u=\ \ 0.408053-0.323773I$ $a=-1.44582+2.40333I$ $b=\ \ 0.478977+0.992998I$	$-0.32720+2.78409I$	$1.83631-3.63493I$
$u=\ \ 1.45414+0.29131I$ $a=\ \ 0.852958+0.820806I$ $b=-0.278597+0.750241I$	$-6.17711-5.61767I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.45414 - 0.29131I$ $a = 0.852958 - 0.820806I$ $b = -0.278597 - 0.750241I$	$-6.17711 + 5.61767I$	0
$u = 0.022495 + 0.486505I$ $a = -1.48819 - 1.58315I$ $b = 0.545824 - 0.945362I$	$0.07724 - 2.86484I$	$1.199969 - 0.242830I$
$u = 0.022495 - 0.486505I$ $a = -1.48819 + 1.58315I$ $b = 0.545824 + 0.945362I$	$0.07724 + 2.86484I$	$1.199969 + 0.242830I$
$u = -1.53385 + 0.07020I$ $a = -0.40293 + 2.49379I$ $b = 0.449202 + 1.155340I$	$-6.96879 + 4.07852I$	0
$u = -1.53385 - 0.07020I$ $a = -0.40293 - 2.49379I$ $b = 0.449202 - 1.155340I$	$-6.96879 - 4.07852I$	0
$u = -1.55923 + 0.08103I$ $a = 0.92915 - 2.02619I$ $b = -0.566136 - 1.204640I$	$-14.9606 + 6.2710I$	0
$u = -1.55923 - 0.08103I$ $a = 0.92915 + 2.02619I$ $b = -0.566136 + 1.204640I$	$-14.9606 - 6.2710I$	0
$u = -1.56350 + 0.03748I$ $a = -0.427946 - 0.305316I$ $b = -0.892662 + 0.229621I$	$-12.01330 + 0.94589I$	0
$u = -1.56350 - 0.03748I$ $a = -0.427946 + 0.305316I$ $b = -0.892662 - 0.229621I$	$-12.01330 - 0.94589I$	0
$u = -1.56534 + 0.10799I$ $a = -0.397551 - 0.704235I$ $b = 0.751803 - 0.834148I$	$-8.23473 + 1.87606I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.56534-0.10799I$ $a=-0.397551+0.704235I$ $b=\ \ 0.751803+0.834148I$	$-8.23473-1.87606I$	0
$u=\ \ 1.56363+0.14005I$ $a=\ \ 0.681046-0.008951I$ $b=\ \ 0.682539+0.031873I$	$-7.51475-4.66932I$	0
$u=\ \ 1.56363-0.14005I$ $a=\ \ 0.681046+0.008951I$ $b=\ \ 0.682539-0.031873I$	$-7.51475+4.66932I$	0
$u=\ \ 1.56682+0.18662I$ $a=-0.369496+0.287964I$ $b=-0.882048-0.243919I$	$-7.97573-5.57692I$	0
$u=\ \ 1.56682-0.18662I$ $a=-0.369496-0.287964I$ $b=-0.882048+0.243919I$	$-7.97573+5.57692I$	0
$u=\ \ 1.58824+0.06264I$ $a=-0.35566+2.51657I$ $b=\ \ 0.437537+1.164820I$	$-10.82760-0.61758I$	0
$u=\ \ 1.58824-0.06264I$ $a=-0.35566-2.51657I$ $b=\ \ 0.437537-1.164820I$	$-10.82760+0.61758I$	0
$u=-1.59039+0.15326I$ $a=-0.339018+0.614653I$ $b=\ \ 0.760081+0.806878I$	$-8.15394+7.51658I$	0
$u=-1.59039-0.15326I$ $a=-0.339018-0.614653I$ $b=\ \ 0.760081-0.806878I$	$-8.15394-7.51658I$	0
$u=\ \ 1.58729+0.23058I$ $a=\ \ 0.93005+1.93227I$ $b=-0.569612+1.196030I$	$-10.8454-10.8895I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = \ \ 1.58729 - 0.23058I$ $a = \ \ 0.93005 - 1.93227I$ $b = -0.569612 - 1.196030I$	$-10.8454 + 10.8895I$	0
$u = -1.62598 + 0.02161I$ $a = -0.32812 + 1.91798I$ $b = -0.293102 + 1.265500I$	$-16.8709 - 2.9460I$	0
$u = -1.62598 - 0.02161I$ $a = -0.32812 - 1.91798I$ $b = -0.293102 - 1.265500I$	$-16.8709 + 2.9460I$	0
$u = \ \ 1.62231 + 0.13541I$ $a = -0.28106 - 1.88018I$ $b = -0.281969 - 1.256690I$	$-12.85110 - 1.80108I$	0
$u = \ \ 1.62231 - 0.13541I$ $a = -0.28106 + 1.88018I$ $b = -0.281969 + 1.256690I$	$-12.85110 + 1.80108I$	0
$u = \ \ 1.63560 + 0.15859I$ $a = -0.39129 - 2.44697I$ $b = \ \ 0.460557 - 1.163250I$	$-10.66370 - 8.89844I$	0
$u = \ \ 1.63560 - 0.15859I$ $a = -0.39129 + 2.44697I$ $b = \ \ 0.460557 + 1.163250I$	$-10.66370 + 8.89844I$	0
$u = -1.68732 + 0.22905I$ $a = -0.370876 - 0.238606I$ $b = -0.890810 + 0.256215I$	$-11.5683 + 10.5297I$	0
$u = -1.68732 - 0.22905I$ $a = -0.370876 + 0.238606I$ $b = -0.890810 - 0.256215I$	$-11.5683 - 10.5297I$	0
$u = -1.71267 + 0.17894I$ $a = -0.23914 + 1.90958I$ $b = -0.270919 + 1.263420I$	$-16.5460 + 6.7728I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-1.71267-0.17894I$ $a=-0.23914-1.90958I$ $b=-0.270919-1.263420I$	$-16.5460-6.7728I$	0
$u=-1.71107+0.25442I$ $a=\ \ 0.86199-1.91094I$ $b=-0.577264-1.196240I$	$-14.4069+15.9000I$	0
$u=-1.71107-0.25442I$ $a=\ \ 0.86199+1.91094I$ $b=-0.577264+1.196240I$	$-14.4069-15.9000I$	0
$u=-0.170164+0.203673I$ $a=\ \ 3.62951+3.25134I$ $b=\ \ 0.214671+0.856960I$	$-1.89638+1.79583I$	$-7.96923-3.85699I$
$u=-0.170164-0.203673I$ $a=\ \ 3.62951-3.25134I$ $b=\ \ 0.214671-0.856960I$	$-1.89638-1.79583I$	$-7.96923+3.85699I$

II. $I_2^u = \langle b-a-1,\ a^2+a+1,\ u^5+u^4-2u^3-u^2+u-1\rangle$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
$$a_{10} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_7 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$
$$a_{11} = \begin{pmatrix} -u \\ -u^3+u \end{pmatrix}$$
$$a_2 = \begin{pmatrix} a \\ a+1 \end{pmatrix}$$
$$a_8 = \begin{pmatrix} -u^2+1 \\ -u^4+2u^2 \end{pmatrix}$$
$$a_5 = \begin{pmatrix} 0 \\ a \end{pmatrix}$$
$$a_3 = \begin{pmatrix} a \\ a \end{pmatrix}$$
$$a_4 = \begin{pmatrix} 0 \\ a \end{pmatrix}$$
$$a_1 = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$$
$$a_9 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$
$$a_{12} = \begin{pmatrix} u^3-2u \\ -u^3+u \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= u^4a+2u^3a+u^4-2u^2a-2u^3-3au-u^2-4a+5u-6$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_3, c_5	$(u^2-u+1)^5$
c_2	$(u^2+u+1)^5$
c_4, c_9	u^{10}
c_6, c_7	$(u^5+u^4-2u^3-u^2+u-1)^2$
c_8	$(u^5-u^4+2u^3-u^2+u-1)^2$
c_{10}	$(u^5-u^4-2u^3+u^2+u+1)^2$
c_{11}	$(u^5-3u^4+4u^3-u^2-u+1)^2$
c_{12}	$(u^5+u^4+2u^3+u^2+u+1)^2$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_2, c_3 c_5	$(y^2+y+1)^5$
c_4, c_9	y^{10}
c_6, c_7, c_{10}	$(y^5-5y^4+8y^3-3y^2-y-1)^2$
c_8, c_{12}	$(y^5+3y^4+4y^3+y^2-y-1)^2$
c_{11}	$(y^5-y^4+8y^3-3y^2+3y-1)^2$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 1.21774$ $a = -0.500000 + 0.866025I$ $b = 0.500000 + 0.866025I$	$-2.40108 + 2.02988I$	$-0.40252 - 4.16430I$
$u = 1.21774$ $a = -0.500000 - 0.866025I$ $b = 0.500000 - 0.866025I$	$-2.40108 - 2.02988I$	$-0.40252 + 4.16430I$
$u = 0.309916 + 0.549911I$ $a = -0.500000 + 0.866025I$ $b = 0.500000 + 0.866025I$	$-0.329100 + 0.499304I$	$0.886311 - 0.883423I$
$u = 0.309916 + 0.549911I$ $a = -0.500000 - 0.866025I$ $b = 0.500000 - 0.866025I$	$-0.32910 - 3.56046I$	$-3.42267 + 7.93863I$
$u = 0.309916 - 0.549911I$ $a = -0.500000 + 0.866025I$ $b = 0.500000 + 0.866025I$	$-0.32910 + 3.56046I$	$-3.42267 - 7.93863I$
$u = 0.309916 - 0.549911I$ $a = -0.500000 - 0.866025I$ $b = 0.500000 - 0.866025I$	$-0.329100 - 0.499304I$	$0.886311 + 0.883423I$
$u = -1.41878 + 0.21917I$ $a = -0.500000 + 0.866025I$ $b = 0.500000 + 0.866025I$	$-5.87256 + 6.43072I$	$-4.19593 - 8.50148I$
$u = -1.41878 + 0.21917I$ $a = -0.500000 - 0.866025I$ $b = 0.500000 - 0.866025I$	$-5.87256 + 2.37095I$	$-2.86519 + 1.02882I$
$u = -1.41878 - 0.21917I$ $a = -0.500000 + 0.866025I$ $b = 0.500000 + 0.866025I$	$-5.87256 - 2.37095I$	$-2.86519 - 1.02882I$
$u = -1.41878 - 0.21917I$ $a = -0.500000 - 0.866025I$ $b = 0.500000 - 0.866025I$	$-5.87256 - 6.43072I$	$-4.19593 + 8.50148I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u^2-u+1)^5)(u^{85}+44u^{84}+\cdots-7u-1)$
c_2	$((u^2+u+1)^5)(u^{85}+6u^{84}+\cdots-7u-1)$
c_3	$((u^2-u+1)^5)(u^{85}-6u^{84}+\cdots+20709u-4073)$
c_4, c_9	$u^{10}(u^{85}+u^{84}+\cdots+2048u+1024)$
c_5	$((u^2-u+1)^5)(u^{85}+6u^{84}+\cdots-7u-1)$
c_6, c_7	$((u^5+u^4-2u^3-u^2+u-1)^2)(u^{85}+3u^{84}+\cdots-68u+73)$
c_8	$((u^5-u^4+2u^3-u^2+u-1)^2)(u^{85}-3u^{84}+\cdots-2u+1)$
c_{10}	$((u^5-u^4-2u^3+u^2+u+1)^2)(u^{85}+3u^{84}+\cdots-68u+73)$
c_{11}	$((u^5-3u^4+4u^3-u^2-u+1)^2)(u^{85}+49u^{84}+\cdots-8u-1)$
c_{12}	$((u^5+u^4+2u^3+u^2+u+1)^2)(u^{85}-3u^{84}+\cdots-2u+1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y^2+y+1)^5)(y^{85}+88y^{83}+\cdots-31y-1)$
c_2, c_5	$((y^2+y+1)^5)(y^{85}+44y^{84}+\cdots-7y-1)$
c_3	$((y^2+y+1)^5)(y^{85}-44y^{84}+\cdots-1.63840\times10^8y-1.65893\times10^7)$
c_4, c_9	$y^{10}(y^{85}+55y^{84}+\cdots-2.09715\times10^7y-1048576)$
c_6, c_7, c_{10}	$((y^5-5y^4+8y^3-3y^2-y-1)^2)(y^{85}-95y^{84}+\cdots+44336y-5329)$
c_8, c_{12}	$((y^5+3y^4+4y^3+y^2-y-1)^2)(y^{85}+49y^{84}+\cdots-8y-1)$
c_{11}	$((y^5-y^4+8y^3-3y^2+3y-1)^2)(y^{85}-23y^{84}+\cdots-36y-1)$