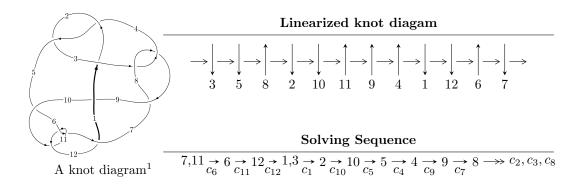
$12a_{0098} (K12a_{0098})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{99} - 2u^{98} + \dots + b + 1, \ u^{98} - u^{97} + \dots + a + 1, \ u^{100} - 2u^{99} + \dots + 3u - 1 \rangle$$

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

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 105 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.

$$I_1^u = \langle u^{99} - 2u^{98} + \dots + b + 1, \ u^{98} - u^{97} + \dots + a + 1, \ u^{100} - 2u^{99} + \dots + 3u - 1
angle$$

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -u^{98} + u^{97} + \dots + 2u - 1 \\ -u^{99} + 2u^{98} + \dots + 2u - 1 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -u^{95} + u^{94} + \dots + 4u - 2 \\ -u^{52} - 14u^{50} + \dots - 2u^{3} + 2u^{2} \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{3} \\ u^{5} + u^{3} + u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -u^{6} - u^{4} + 1 \\ -u^{8} - 2u^{6} - 2u^{4} \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u^{98} - u^{97} + \dots + 5u - 2 \\ u^{99} - 2u^{98} + \dots - 3u + 1 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} u^{11} + 2u^{9} + 2u^{7} + u^{3} \\ -u^{11} - 3u^{9} - 4u^{7} - u^{5} + u^{3} + u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} u^{22} + 5u^{20} + 12u^{18} + 15u^{16} + 10u^{14} + 2u^{12} - u^{8} - u^{6} - u^{4} + 1 \\ -u^{22} - 6u^{20} - 17u^{18} - 26u^{16} - 20u^{14} + 13u^{10} + 10u^{8} + u^{6} - 2u^{4} - u^{2} \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $4u^{99} 15u^{98} + \dots 24u + 7$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{100} + 54u^{99} + \dots + 5u + 1$
c_2, c_4	$u^{100} - 6u^{99} + \dots + 5u - 1$
c_{3}, c_{8}	$u^{100} + u^{99} + \dots + 64u + 32$
c_5,c_{12}	$u^{100} + 2u^{99} + \dots - 9u - 1$
c_6, c_{11}	$u^{100} - 2u^{99} + \dots + 3u - 1$
	$u^{100} - 33u^{99} + \dots - 23040u + 1024$
<i>c</i> ₉	$u^{100} - 14u^{99} + \dots - 5687u + 409$
c_{10}	$u^{100} + 54u^{99} + \dots + 5u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{100} - 10y^{99} + \dots + 11y + 1$
c_2, c_4	$y^{100} - 54y^{99} + \dots - 5y + 1$
c_3, c_8	$y^{100} - 33y^{99} + \dots - 23040y + 1024$
c_5,c_{12}	$y^{100} - 82y^{99} + \dots + 149y + 1$
c_6,c_{11}	$y^{100} + 54y^{99} + \dots + 5y + 1$
	$y^{100} + 59y^{99} + \dots - 17432576y + 1048576$
<i>c</i> ₉	$y^{100} - 22y^{99} + \dots + 9736769y + 167281$
c_{10}	$y^{100} - 14y^{99} + \dots - 3y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.487101 + 0.887376I		
a = -0.64534 + 1.56978I	-2.85974 - 3.13345I	0
b = 0.237262 + 0.339303I		
u = -0.487101 - 0.887376I		
a = -0.64534 - 1.56978I	-2.85974 + 3.13345I	0
b = 0.237262 - 0.339303I		
u = 0.512139 + 0.884085I		
a = 0.85983 - 1.96917I	-2.46262 + 5.68656I	0
b = 2.12852 + 0.82152I		
u = 0.512139 - 0.884085I		
a = 0.85983 + 1.96917I	-2.46262 - 5.68656I	0
b = 2.12852 - 0.82152I		
u = -0.535428 + 0.873146I		
a = -0.102230 + 0.397660I	1.71894 - 6.57445I	0
b = 0.983013 + 0.192627I		
u = -0.535428 - 0.873146I		
a = -0.102230 - 0.397660I	1.71894 + 6.57445I	0
b = 0.983013 - 0.192627I		
u = 0.061097 + 1.022580I		
a = -0.064633 + 0.226670I	-2.29873 + 2.42299I	0
b = 0.076689 + 0.466636I		
u = 0.061097 - 1.022580I		
a = -0.064633 - 0.226670I	-2.29873 - 2.42299I	0
b = 0.076689 - 0.466636I		
u = -0.014877 + 1.027310I		
a = -1.90233 + 0.83604I	-6.01004 - 1.32650I	0
b = 0.90903 - 1.15393I		
u = -0.014877 - 1.027310I		
a = -1.90233 - 0.83604I	-6.01004 + 1.32650I	0
b = 0.90903 + 1.15393I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.281502 + 0.988175I		
a = 1.171170 + 0.536052I	-0.57782 + 2.38994I	0
b = -0.644688 - 0.009719I		
u = 0.281502 - 0.988175I		
a = 1.171170 - 0.536052I	-0.57782 - 2.38994I	0
b = -0.644688 + 0.009719I		
u = -0.544624 + 0.786486I		
a = -0.96241 - 1.40714I	4.62351 - 4.68716I	0
b = -1.38076 + 0.76706I		
u = -0.544624 - 0.786486I		
a = -0.96241 + 1.40714I	4.62351 + 4.68716I	0
b = -1.38076 - 0.76706I		
u = -0.549344 + 0.893780I		
a = -0.75864 - 1.80248I	-0.99980 - 11.63300I	0
b = -2.01660 + 0.64147I		
u = -0.549344 - 0.893780I		
a = -0.75864 + 1.80248I	-0.99980 + 11.63300I	0
b = -2.01660 - 0.64147I		
u = 0.440563 + 0.839915I		
a = 0.601924 + 0.493045I	-0.05742 + 1.93114I	0
b = -0.771261 + 0.570745I		
u = 0.440563 - 0.839915I		
a = 0.601924 - 0.493045I	-0.05742 - 1.93114I	0
b = -0.771261 - 0.570745I		
u = 0.055568 + 1.074490I		
a = 1.82687 + 0.75760I	-5.21910 + 6.98392I	0
b = -1.10849 - 0.96099I		
u = 0.055568 - 1.074490I		
a = 1.82687 - 0.75760I	-5.21910 - 6.98392I	0
b = -1.10849 + 0.96099I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.544396 + 0.739925I		
a = 0.072681 + 1.149840I	4.75608 + 0.29953I	0
b = 1.49172 + 0.43095I		
u = -0.544396 - 0.739925I		
a = 0.072681 - 1.149840I	4.75608 - 0.29953I	0
b = 1.49172 - 0.43095I		
u = 0.481773 + 0.978864I		
a = 0.50337 + 1.72394I	-2.30351 - 1.49233I	0
b = -0.521962 + 0.138752I		
u = 0.481773 - 0.978864I		
a = 0.50337 - 1.72394I	-2.30351 + 1.49233I	0
b = -0.521962 - 0.138752I		
u = 0.435072 + 0.741485I		
a = 1.233090 - 0.445011I	0.21908 + 1.78940I	0.70752 - 5.47893I
b = 0.325832 + 1.179420I		
u = 0.435072 - 0.741485I		
a = 1.233090 + 0.445011I	0.21908 - 1.78940I	0.70752 + 5.47893I
b = 0.325832 - 1.179420I		
u = 0.824459 + 0.135370I		
a = -0.035450 - 1.023230I	-4.76000 - 12.04300I	-3.90865 + 7.83863I
b = -2.22486 + 1.32612I		
u = 0.824459 - 0.135370I		
a = -0.035450 + 1.023230I	-4.76000 + 12.04300I	-3.90865 - 7.83863I
b = -2.22486 - 1.32612I		
u = -0.825648 + 0.079549I		
a = 0.654212 + 0.474789I	-6.39732 - 2.29666I	-5.74508 + 3.83085I
b = -0.026542 + 0.835432I		
u = -0.825648 - 0.079549I		
a = 0.654212 - 0.474789I	-6.39732 + 2.29666I	-5.74508 - 3.83085I
b = -0.026542 - 0.835432I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.578115 + 0.594628I		
a = 0.66753 + 1.49885I	-0.16037 + 7.14748I	-0.19098 - 4.78426I
b = 1.70331 + 0.41644I		
u = -0.578115 - 0.594628I		
a = 0.66753 - 1.49885I	-0.16037 - 7.14748I	-0.19098 + 4.78426I
b = 1.70331 - 0.41644I		
u = -0.543322 + 0.623428I		
a = -0.500926 - 0.937819I	2.41952 + 2.21533I	3.55808 - 1.03686I
b = -0.592010 + 0.346478I		
u = -0.543322 - 0.623428I		
a = -0.500926 + 0.937819I	2.41952 - 2.21533I	3.55808 + 1.03686I
b = -0.592010 - 0.346478I		
u = 0.808693 + 0.134012I		
a = -0.042565 + 0.155136I	-1.75864 - 6.90513I	-0.71442 + 4.85382I
b = 1.43091 - 0.46157I		
u = 0.808693 - 0.134012I		
a = -0.042565 - 0.155136I	-1.75864 + 6.90513I	-0.71442 - 4.85382I
b = 1.43091 + 0.46157I		
u = -0.808227 + 0.119737I		
a = 0.001013 - 1.118540I	-5.96708 + 5.74079I	-5.45196 - 4.06598I
b = 2.18276 + 1.75899I		
u = -0.808227 - 0.119737I		
a = 0.001013 + 1.118540I	-5.96708 - 5.74079I	-5.45196 + 4.06598I
b = 2.18276 - 1.75899I		
u = 0.432154 + 1.101560I		
a = 1.41814 - 0.54319I	-0.54978 + 2.70789I	0
b = -0.682213 + 0.652652I		
u = 0.432154 - 1.101560I		
a = 1.41814 + 0.54319I	-0.54978 - 2.70789I	0
b = -0.682213 - 0.652652I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.804661 + 0.108864I		
a = -0.773190 + 0.547526I	-6.30355 - 2.94906I	-5.62609 + 3.05585I
b = -0.216473 + 0.828174I		
u = 0.804661 - 0.108864I		
a = -0.773190 - 0.547526I	-6.30355 + 2.94906I	-5.62609 - 3.05585I
b = -0.216473 - 0.828174I		
u = -0.800011		
a = 0.579040	-3.31846	3.13170
b = -0.453790		
u = 0.362513 + 1.145170I		
a = -1.23658 + 1.82457I	-1.70065 - 1.90512I	0
b = 0.406691 - 0.980808I		
u = 0.362513 - 1.145170I		
a = -1.23658 - 1.82457I	-1.70065 + 1.90512I	0
b = 0.406691 + 0.980808I		
u = -0.789568 + 0.093306I		
a = 0.195595 + 0.130891I	-3.06121 + 1.43669I	-2.47302 - 0.11715I
b = -1.317430 - 0.428608I		
u = -0.789568 - 0.093306I		
a = 0.195595 - 0.130891I	-3.06121 - 1.43669I	-2.47302 + 0.11715I
b = -1.317430 + 0.428608I		
u = 0.498648 + 0.587209I		
a = -0.62990 + 1.82971I	-1.64770 - 1.50599I	-1.92217 + 0.80453I
b = -1.73628 + 0.37315I		
u = 0.498648 - 0.587209I		
a = -0.62990 - 1.82971I	-1.64770 + 1.50599I	-1.92217 - 0.80453I
b = -1.73628 - 0.37315I		
u = -0.435541 + 1.155600I		
a = 0.09357 + 3.60800I	-4.86062 - 2.24576I	0
b = 1.11804 - 1.66899I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.435541 - 1.155600I		
a = 0.09357 - 3.60800I	-4.86062 + 2.24576I	0
b = 1.11804 + 1.66899I		
u = 0.737955 + 0.179606I		
a = -0.253244 - 1.053450I	2.13680 - 5.42672I	1.72948 + 6.28208I
b = -0.82591 + 1.17880I		
u = 0.737955 - 0.179606I		
a = -0.253244 + 1.053450I	2.13680 + 5.42672I	1.72948 - 6.28208I
b = -0.82591 - 1.17880I		
u = 0.495377 + 1.145420I		
a = 0.81566 + 2.36176I	0.07482 + 5.02620I	0
b = -1.45498 - 0.50738I		
u = 0.495377 - 1.145420I		
a = 0.81566 - 2.36176I	0.07482 - 5.02620I	0
b = -1.45498 + 0.50738I		
u = 0.453852 + 1.167430I		
a = 0.375656 - 0.273528I	-6.15358 + 4.16473I	0
b = 0.587582 - 0.060312I		
u = 0.453852 - 1.167430I		
a = 0.375656 + 0.273528I	-6.15358 - 4.16473I	0
b = 0.587582 + 0.060312I		
u = -0.472406 + 1.164010I		
a = -2.77759 - 2.12300I	-4.58329 - 5.97967I	0
b = 0.55876 + 2.02590I		
u = -0.472406 - 1.164010I		
a = -2.77759 + 2.12300I	-4.58329 + 5.97967I	0
b = 0.55876 - 2.02590I		
u = 0.507155 + 1.162800I		
a = 0.91044 - 2.82854I	-0.72084 + 10.09420I	0
b = 0.76397 + 1.44828I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.507155 - 1.162800I		
a = 0.91044 + 2.82854I	-0.72084 - 10.09420I	0
b = 0.76397 - 1.44828I		
u = 0.381540 + 1.214470I		
a = 1.90375 + 0.08418I	-5.81050 - 2.87951I	0
b = -1.32632 + 0.72565I		
u = 0.381540 - 1.214470I		
a = 1.90375 - 0.08418I	-5.81050 + 2.87951I	0
b = -1.32632 - 0.72565I		
u = -0.407140 + 1.208730I		
a = -1.92802 + 0.11186I	-6.90359 - 2.70005I	0
b = 1.24526 + 0.74300I		
u = -0.407140 - 1.208730I		
a = -1.92802 - 0.11186I	-6.90359 + 2.70005I	0
b = 1.24526 - 0.74300I		
u = 0.584288 + 0.428222I		
a = 0.331398 + 1.168580I	-0.74199 + 5.73096I	-0.46933 - 5.70886I
b = 1.042000 + 0.223440I		
u = 0.584288 - 0.428222I		
a = 0.331398 - 1.168580I	-0.74199 - 5.73096I	-0.46933 + 5.70886I
b = 1.042000 - 0.223440I		
u = -0.390582 + 1.215960I		
a = 3.52756 + 1.57398I	-9.96791 + 1.65394I	0
b = -1.95856 - 1.94901I		
u = -0.390582 - 1.215960I		
a = 3.52756 - 1.57398I	-9.96791 - 1.65394I	0
b = -1.95856 + 1.94901I		
u = 0.397348 + 1.215000I		
a = -0.153885 + 0.492319I	-10.25340 + 1.17144I	0
b = 0.220508 - 1.046930I		
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Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.397348 - 1.215000I		
a = -0.153885 - 0.492319I	-10.25340 - 1.17144I	0
b = 0.220508 + 1.046930I		
u = 0.378815 + 1.225050I		
a = -3.23541 + 1.04754I	-8.88797 - 7.96569I	0
b = 2.06321 - 1.49338I		
u = 0.378815 - 1.225050I		
a = -3.23541 - 1.04754I	-8.88797 + 7.96569I	0
b = 2.06321 + 1.49338I		
u = 0.680366 + 0.201848I		
a = -0.077511 + 0.618875I	2.79666 - 0.53221I	3.73788 - 0.05845I
b = 1.313020 - 0.208942I		
u = 0.680366 - 0.201848I		
a = -0.077511 - 0.618875I	2.79666 + 0.53221I	3.73788 + 0.05845I
b = 1.313020 + 0.208942I		
u = -0.493166 + 1.196550I		
a = -1.11383 + 1.86850I	-6.29130 - 6.13018I	0
b = 1.57907 - 0.45097I		
u = -0.493166 - 1.196550I		
a = -1.11383 - 1.86850I	-6.29130 + 6.13018I	0
b = 1.57907 + 0.45097I		
u = -0.413146 + 1.227640I		
a = -0.014578 + 0.657209I	-10.32580 - 6.60037I	0
b = 0.053942 - 1.014040I		
u = -0.413146 - 1.227640I		
a = -0.014578 - 0.657209I	-10.32580 + 6.60037I	0
b = 0.053942 + 1.014040I		
u = -0.455587 + 1.212890I		
a = -0.917999 + 0.410244I	-6.88676 - 4.49128I	0
b = 0.444463 - 0.011374I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.455587 - 1.212890I		
a = -0.917999 - 0.410244I	-6.88676 + 4.49128I	0
b = 0.444463 + 0.011374I		
u = 0.501005 + 1.199870I		
a = 1.012660 - 0.468509I	-9.51720 + 7.72554I	0
b = 0.376071 + 0.795331I		
u = 0.501005 - 1.199870I		
a = 1.012660 + 0.468509I	-9.51720 - 7.72554I	0
b = 0.376071 - 0.795331I		
u = 0.511051 + 1.196640I		
a = 0.92636 + 1.94812I	-4.89488 + 11.74760I	0
b = -1.63284 - 0.49708I		
u = 0.511051 - 1.196640I		
a = 0.92636 - 1.94812I	-4.89488 - 11.74760I	0
b = -1.63284 + 0.49708I		
u = -0.505714 + 1.199280I		
a = 0.27473 - 4.54256I	-9.15153 - 10.55260I	0
b = -2.35444 + 1.89934I		
u = -0.505714 - 1.199280I		
a = 0.27473 + 4.54256I	-9.15153 + 10.55260I	0
b = -2.35444 - 1.89934I		
u = 0.514998 + 1.202160I		
a = -0.63872 - 4.05356I	-7.9226 + 16.9439I	0
b = 2.37010 + 1.41332I		
u = 0.514998 - 1.202160I		
a = -0.63872 + 4.05356I	-7.9226 - 16.9439I	0
b = 2.37010 - 1.41332I		
u = -0.492233 + 1.213360I		
a = -1.127970 - 0.340973I	-9.76185 - 2.48344I	0
b = -0.116806 + 0.827372I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.492233 - 1.213360I		
a = -1.127970 + 0.340973I	-9.76185 + 2.48344I	0
b = -0.116806 - 0.827372I		
u = -0.669706 + 0.085937I		
a = 0.594226 - 0.989167I	-1.54837 + 1.65311I	-2.30876 - 3.97340I
b = -0.54335 + 1.59916I		
u = -0.669706 - 0.085937I		
a = 0.594226 + 0.989167I	-1.54837 - 1.65311I	-2.30876 + 3.97340I
b = -0.54335 - 1.59916I		
u = 0.674398		
a = -1.27425	-2.93668	0.594550
b = -0.524099		
u = -0.397234 + 0.514555I		
a = -0.43988 + 1.63914I	-1.95778 - 0.78971I	-2.64817 - 0.48190I
b = -0.698089 + 0.059413I		
u = -0.397234 - 0.514555I		
a = -0.43988 - 1.63914I	-1.95778 + 0.78971I	-2.64817 + 0.48190I
b = -0.698089 - 0.059413I		
u = -0.263931 + 0.581955I		
a = -0.72627 + 1.86741I	-1.93880 - 0.78358I	-3.76235 - 2.11912I
b = -0.564883 - 0.162134I		
u = -0.263931 - 0.581955I		
a = -0.72627 - 1.86741I	-1.93880 + 0.78358I	-3.76235 + 2.11912I
b = -0.564883 + 0.162134I		
u = 0.537250 + 0.344396I		
a = -0.064717 - 0.765608I	1.59701 + 1.17190I	3.67208 - 1.41836I
b = 0.092979 + 0.350954I		
u = 0.537250 - 0.344396I		
a = -0.064717 + 0.765608I	1.59701 - 1.17190I	3.67208 + 1.41836I
b = 0.092979 - 0.350954I		

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

(i) Arc colorings

$$a_{7} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} u \\ u^{3} + u \end{pmatrix}$$

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

$$a_{3} = \begin{pmatrix} -u^{2} + u - 1 \\ 0 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -u^{3} - u^{2} + u - 1 \\ u^{3} + u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} u^{3} \\ -u^{3} - u \end{pmatrix}$$

$$a_{4} = \begin{pmatrix} u^{3} \\ -u^{3} - u \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-2u^4 + 7u^3 8u^2 + 6u 12$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_2	$(u-1)^5$
c_3, c_7, c_8	u^5
c_4	$(u+1)^5$
c_5, c_9	$u^5 + u^4 - 2u^3 - u^2 + u - 1$
<i>c</i> ₆	$u^5 - u^4 + 2u^3 - u^2 + u - 1$
c_{10}	$u^5 - 3u^4 + 4u^3 - u^2 - u + 1$
c_{11}	$u^5 + u^4 + 2u^3 + u^2 + u + 1$
c_{12}	$u^5 - u^4 - 2u^3 + u^2 + u + 1$

(v) Riley Polynomials at the component

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

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.339110 + 0.822375I		
a = -0.77780 + 1.38013I	-1.97403 - 1.53058I	-5.00899 + 6.23673I
b = 0		
u = -0.339110 - 0.822375I		
a = -0.77780 - 1.38013I	-1.97403 + 1.53058I	-5.00899 - 6.23673I
b = 0		
u = 0.766826		
a = -0.821196	-4.04602	-9.63840
b = 0		
u = 0.455697 + 1.200150I		
a = 0.688402 + 0.106340I	-7.51750 + 4.40083I	-13.17182 - 3.02310I
b = 0		
u = 0.455697 - 1.200150I		
a = 0.688402 - 0.106340I	-7.51750 - 4.40083I	-13.17182 + 3.02310I
b = 0		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$((u-1)^5)(u^{100} + 54u^{99} + \dots + 5u + 1)$
c_2	$((u-1)^5)(u^{100} - 6u^{99} + \dots + 5u - 1)$
c_3, c_8	$u^5(u^{100} + u^{99} + \dots + 64u + 32)$
c_4	$((u+1)^5)(u^{100} - 6u^{99} + \dots + 5u - 1)$
<i>C</i> ₅	$ (u^5 + u^4 - 2u^3 - u^2 + u - 1)(u^{100} + 2u^{99} + \dots - 9u - 1) $
<i>C</i> ₆	$(u^5 - u^4 + 2u^3 - u^2 + u - 1)(u^{100} - 2u^{99} + \dots + 3u - 1)$
	$u^5(u^{100} - 33u^{99} + \dots - 23040u + 1024)$
<i>c</i> ₉	$ (u5 + u4 - 2u3 - u2 + u - 1)(u100 - 14u99 + \dots - 5687u + 409) $
c_{10}	$(u^5 - 3u^4 + 4u^3 - u^2 - u + 1)(u^{100} + 54u^{99} + \dots + 5u + 1)$
c_{11}	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)(u^{100} - 2u^{99} + \dots + 3u - 1)$
c_{12}	$(u^5 - u^4 - 2u^3 + u^2 + u + 1)(u^{100} + 2u^{99} + \dots - 9u - 1)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$((y-1)^5)(y^{100} - 10y^{99} + \dots + 11y + 1)$
c_2, c_4	$((y-1)^5)(y^{100} - 54y^{99} + \dots - 5y + 1)$
c_3, c_8	$y^5(y^{100} - 33y^{99} + \dots - 23040y + 1024)$
c_5, c_{12}	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)(y^{100} - 82y^{99} + \dots + 149y + 1)$
c_{6}, c_{11}	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)(y^{100} + 54y^{99} + \dots + 5y + 1)$
<i>c</i> ₇	$y^5(y^{100} + 59y^{99} + \dots - 1.74326 \times 10^7y + 1048576)$
<i>c</i> 9	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)$ $\cdot (y^{100} - 22y^{99} + \dots + 9736769y + 167281)$
c_{10}	$(y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1)(y^{100} - 14y^{99} + \dots - 3y + 1)$