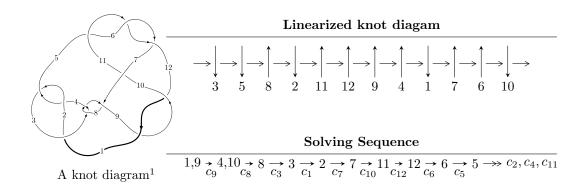
# $12a_{0112} (K12a_{0112})$



#### Ideals for irreducible components<sup>2</sup> of $X_{par}$

$$\begin{split} I_1^u &= \langle 6.90259 \times 10^{236} u^{87} + 8.88875 \times 10^{237} u^{86} + \dots + 2.40669 \times 10^{238} b - 4.89965 \times 10^{238}, \\ & 6.80069 \times 10^{238} u^{87} + 9.46673 \times 10^{239} u^{86} + \dots + 5.53539 \times 10^{239} a + 2.08834 \times 10^{241}, \\ & u^{88} + 14 u^{87} + \dots + 3387 u + 207 \rangle \\ I_2^u &= \langle b, -u^4 - u^3 - 2u^2 + a - u - 1, \ u^5 + u^4 + 2u^3 + u^2 + u + 1 \rangle \end{split}$$

\* 2 irreducible components of  $\dim_{\mathbb{C}} = 0$ , with total 93 representations.

<sup>&</sup>lt;sup>1</sup>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).

 $<sup>^2</sup>$  All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I. 
$$I_1^u = \langle 6.90 \times 10^{236} u^{87} + 8.89 \times 10^{237} u^{86} + \dots + 2.41 \times 10^{238} b - 4.90 \times 10^{238}, \ 6.80 \times 10^{238} u^{87} + 9.47 \times 10^{239} u^{86} + \dots + 5.54 \times 10^{239} a + 2.09 \times 10^{241}, \ u^{88} + 14 u^{87} + \dots + 3387 u + 207 \rangle$$

(i) Arc colorings

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

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

$$a_{4} = \begin{pmatrix} -0.122858u^{87} - 1.71022u^{86} + \cdots - 627.195u - 37.7271 \\ -0.0286808u^{87} - 0.369335u^{86} + \cdots + 21.4446u + 2.03584 \end{pmatrix}$$

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

$$a_{8} = \begin{pmatrix} -0.00171350u^{87} - 0.0279250u^{86} + \cdots - 36.0867u - 5.51864 \\ -0.0374023u^{87} - 0.488646u^{86} + \cdots - 233.414u - 15.5951 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -0.0424549u^{87} - 0.597700u^{86} + \cdots - 379.570u - 27.2479 \\ -0.0311366u^{87} - 0.382954u^{86} + \cdots + 100.315u + 8.26440 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 0.0694474u^{87} + 0.975047u^{86} + \cdots + 215.246u + 12.4910 \\ 0.0385643u^{87} + 0.496854u^{86} + \cdots + 44.9227u + 3.00962 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} 0.0356888u^{87} + 0.460721u^{86} + \cdots + 197.327u + 10.0764 \\ -0.0374023u^{87} - 0.488646u^{86} + \cdots - 233.414u - 15.5951 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0.0269231u^{87} + 0.335328u^{86} + \cdots + 210.971u + 21.3838 \\ -0.0159512u^{87} - 0.217071u^{86} + \cdots + 26.5351u + 1.10107 \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} 0.0237817u^{87} + 0.326428u^{86} + \cdots + 315.117u + 18.5023 \\ -0.0404086u^{87} - 0.542338u^{86} + \cdots - 222.919u - 13.8773 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0.0753384u^{87} - 1.01734u^{86} + \cdots - 399.712u - 21.7576 \\ 0.00393597u^{87} + 0.0453448u^{86} + \cdots - 0.284989u - 0.354695 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes =  $-0.114811u^{87} 1.49279u^{86} + \cdots 618.725u 34.0945$

#### (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
$c_1$	$u^{88} + 46u^{87} + \dots + 7u + 1$
$c_2, c_4$	$u^{88} - 6u^{87} + \dots + 7u - 1$
$c_3, c_8$	$u^{88} + u^{87} + \dots - 32u + 32$
$c_5, c_6, c_{11}$	$u^{88} - 2u^{87} + \dots + u - 1$
$c_7$	$u^{88} - 33u^{87} + \dots - 18944u + 1024$
$c_9,c_{12}$	$u^{88} - 14u^{87} + \dots - 3387u + 207$
$c_{10}$	$u^{88} + 6u^{87} + \dots - 4287u - 1585$

#### (v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1$	$y^{88} - 2y^{87} + \dots + 17y + 1$
$c_2, c_4$	$y^{88} - 46y^{87} + \dots - 7y + 1$
$c_3, c_8$	$y^{88} - 33y^{87} + \dots - 18944y + 1024$
$c_5, c_6, c_{11}$	$y^{88} - 82y^{87} + \dots + 11y + 1$
$c_7$	$y^{88} + 35y^{87} + \dots + 3538944y + 1048576$
$c_9,c_{12}$	$y^{88} + 66y^{87} + \dots + 2032911y + 42849$
$c_{10}$	$y^{88} - 26y^{87} + \dots - 57768789y + 2512225$

## (vi) Complex Volumes and Cusp Shapes

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.936529 + 0.286385I		
a = 0.375503 - 0.818432I	1.58963 + 0.54596I	0
b = 0.670197 - 0.599214I		
u = -0.936529 - 0.286385I		
a = 0.375503 + 0.818432I	1.58963 - 0.54596I	0
b = 0.670197 + 0.599214I		
u = -0.158558 + 0.953109I		
a = 1.35923 - 1.66559I	-1.208240 - 0.072119I	0
b = -0.799038 - 0.483668I		
u = -0.158558 - 0.953109I		
a = 1.35923 + 1.66559I	-1.208240 + 0.072119I	0
b = -0.799038 + 0.483668I		
u = 0.049688 + 1.038260I		
a = 0.246699 - 0.518699I	1.25966 - 1.52143I	0
b = 0.189654 - 0.798658I		
u = 0.049688 - 1.038260I		
a = 0.246699 + 0.518699I	1.25966 + 1.52143I	0
b = 0.189654 + 0.798658I		
u = 0.957572 + 0.048444I		
a = 0.18518 + 1.65682I	-5.39754 - 1.29517I	0
b = 0.704859 + 0.769906I		
u = 0.957572 - 0.048444I		
a = 0.18518 - 1.65682I	-5.39754 + 1.29517I	0
b = 0.704859 - 0.769906I		
u = 0.672618 + 0.682873I		
a = -0.400811 + 0.253113I	-0.26439 - 2.42416I	0
b = -0.747825 + 0.045261I		
u = 0.672618 - 0.682873I		
a = -0.400811 - 0.253113I	-0.26439 + 2.42416I	0
b = -0.747825 - 0.045261I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.927890 + 0.197280I		
a = -0.307178 + 1.192550I	-1.73101 - 2.30754I	0
b = -0.836277 + 0.577421I		
u = 0.927890 - 0.197280I		
a = -0.307178 - 1.192550I	-1.73101 + 2.30754I	0
b = -0.836277 - 0.577421I		
u = -0.992970 + 0.408219I		
a = 0.27813 - 1.71995I	-1.77414 + 1.70120I	0
b = -0.764304 - 0.705483I		
u = -0.992970 - 0.408219I		
a = 0.27813 + 1.71995I	-1.77414 - 1.70120I	0
b = -0.764304 + 0.705483I		
u = -0.240044 + 1.046750I		
a = -0.640277 + 0.623290I	-0.63655 + 2.43655I	0
b = -0.547854 + 0.938031I		
u = -0.240044 - 1.046750I		
a = -0.640277 - 0.623290I	-0.63655 - 2.43655I	0
b = -0.547854 - 0.938031I		
u = -0.901912		
a = 0.475848	1.84548	0
b = 0.618625		
u = -0.999368 + 0.482478I		
a = -0.385520 + 1.298070I	-1.59853 + 4.33517I	0
b = -0.681224 + 0.844671I		
u = -0.999368 - 0.482478I		
a = -0.385520 - 1.298070I	-1.59853 - 4.33517I	0
b = -0.681224 - 0.844671I		
u = 1.107320 + 0.199270I		
a = 0.60506 - 1.33234I	-4.52658 - 6.80550I	0
b = 0.985248 - 0.683709I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.107320 - 0.199270I		
a = 0.60506 + 1.33234I	-4.52658 + 6.80550I	0
b = 0.985248 + 0.683709I		
u = -0.979582 + 0.586031I		
a = 0.004868 + 1.287640I	2.32070 + 5.36796I	0
b = 0.928514 + 0.612301I		
u = -0.979582 - 0.586031I		
a = 0.004868 - 1.287640I	2.32070 - 5.36796I	0
b = 0.928514 - 0.612301I		
u = -1.122670 + 0.270465I		
a = -0.800454 + 0.947773I	-1.23452 - 3.53072I	0
b = -0.935027 + 0.654173I		
u = -1.122670 - 0.270465I		
a = -0.800454 - 0.947773I	-1.23452 + 3.53072I	0
b = -0.935027 - 0.654173I		
u = -0.532169 + 0.647609I		
a = -1.117930 + 0.206729I	-0.68637 - 4.27140I	0
b = -0.928319 + 0.547493I		
u = -0.532169 - 0.647609I		
a = -1.117930 - 0.206729I	-0.68637 + 4.27140I	0
b = -0.928319 - 0.547493I		
u = 0.049130 + 1.172290I		
a = -0.77333 - 1.57633I	7.63686 - 5.93187I	0
b = 1.142770 - 0.685681I		
u = 0.049130 - 1.172290I		
a = -0.77333 + 1.57633I	7.63686 + 5.93187I	0
b = 1.142770 + 0.685681I		
u = -0.097525 + 1.179330I		
a = 0.526131 + 0.428629I	5.60936 + 0.10985I	0
b = 0.502102 + 0.976980I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.097525 - 1.179330I		
a = 0.526131 - 0.428629I	5.60936 - 0.10985I	0
b = 0.502102 - 0.976980I		
u = -0.271686 + 1.161130I		
a = -0.66534 + 1.39246I	3.72025 + 3.22037I	0
b = 1.092670 + 0.554601I		
u = -0.271686 - 1.161130I		
a = -0.66534 - 1.39246I	3.72025 - 3.22037I	0
b = 1.092670 - 0.554601I		
u = -0.178894 + 1.179540I		
a = -1.51426 - 1.29003I	4.87067 + 2.63124I	0
b = 0.862175 - 0.410472I		
u = -0.178894 - 1.179540I		
a = -1.51426 + 1.29003I	4.87067 - 2.63124I	0
b = 0.862175 + 0.410472I		
u = 0.345533 + 1.154470I		
a = -0.219535 - 0.551957I	0.97891 - 2.18458I	0
b = -0.324272 - 0.793372I		
u = 0.345533 - 1.154470I		
a = -0.219535 + 0.551957I	0.97891 + 2.18458I	0
b = -0.324272 + 0.793372I		
u = -0.618566 + 1.037550I		
a = 0.280639 + 0.194471I	4.80573 + 5.40225I	0
b = 0.760975 + 0.164149I		
u = -0.618566 - 1.037550I		
a = 0.280639 - 0.194471I	4.80573 - 5.40225I	0
b = 0.760975 - 0.164149I		
u = -0.383860 + 1.157030I		
a = 0.47369 - 1.62147I	1.12733 + 8.44671I	0
b = -1.114180 - 0.702529I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.383860 - 1.157030I		
a = 0.47369 + 1.62147I	1.12733 - 8.44671I	0
b = -1.114180 + 0.702529I		
u = -0.021394 + 1.229940I		
a = 0.87335 + 1.30563I	10.11390 - 0.59412I	0
b = -1.134670 + 0.531246I		
u = -0.021394 - 1.229940I		
a = 0.87335 - 1.30563I	10.11390 + 0.59412I	0
b = -1.134670 - 0.531246I		
u = -1.104080 + 0.603800I		
a = -0.27187 - 1.45375I	-0.53124 + 10.13980I	0
b = -1.021110 - 0.711171I		
u = -1.104080 - 0.603800I		
a = -0.27187 + 1.45375I	-0.53124 - 10.13980I	0
b = -1.021110 + 0.711171I		
u = 0.679458 + 1.091510I		
a = 0.670170 + 0.284575I	-1.84267 + 0.64548I	0
b = 0.843455 + 0.544076I		
u = 0.679458 - 1.091510I		
a = 0.670170 - 0.284575I	-1.84267 - 0.64548I	0
b = 0.843455 - 0.544076I		
u = -0.237285 + 1.275700I		
a = -0.223312 - 0.483493I	7.25991 + 4.32353I	0
b = -0.181216 - 0.887325I		
u = -0.237285 - 1.275700I		
a = -0.223312 + 0.483493I	7.25991 - 4.32353I	0
b = -0.181216 + 0.887325I		
u = 0.456039 + 1.231780I		
a = -1.04841 - 1.46067I	-1.77594 - 3.72393I	0
b = 0.864810 - 0.542688I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.456039 - 1.231780I		
a = -1.04841 + 1.46067I	-1.77594 + 3.72393I	0
b = 0.864810 + 0.542688I		
u = 0.022099 + 1.329330I		
a = -0.686226 + 0.293109I	6.41930 + 0.59704I	0
b = 1.221780 + 0.085487I		
u = 0.022099 - 1.329330I		
a = -0.686226 - 0.293109I	6.41930 - 0.59704I	0
b = 1.221780 - 0.085487I		
u = 0.157039 + 1.370650I		
a = 0.658441 + 0.215863I	6.31625 - 4.73507I	0
b = -1.225890 + 0.135801I		
u = 0.157039 - 1.370650I		
a = 0.658441 - 0.215863I	6.31625 + 4.73507I	0
b = -1.225890 - 0.135801I		
u = 0.465964 + 1.299550I		
a = 0.468359 + 0.706801I	-1.23104 - 6.37786I	0
b = 0.590340 + 0.969623I		
u = 0.465964 - 1.299550I		
a = 0.468359 - 0.706801I	-1.23104 + 6.37786I	0
b = 0.590340 - 0.969623I		
u = 0.44859 + 1.37548I		
a = 0.573859 + 1.243100I	3.15715 - 7.30484I	0
b = -1.099580 + 0.597714I		
u = 0.44859 - 1.37548I		
a = 0.573859 - 1.243100I	3.15715 + 7.30484I	0
b = -1.099580 - 0.597714I		
u = -0.15862 + 1.43810I		
a = 0.756590 + 0.287532I	12.66800 + 2.43863I	0
b = -1.257530 + 0.061097I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.15862 - 1.43810I		
a = 0.756590 - 0.287532I	12.66800 - 2.43863I	0
b = -1.257530 - 0.061097I		
u = -0.547508		
a = -3.18325	1.52279	9.62570
b = 0.650133		
u = -0.094475 + 0.535440I		
a = 0.347771 - 1.278000I	5.45652 + 5.74955I	8.27153 - 6.35837I
b = 1.033350 + 0.461461I		
u = -0.094475 - 0.535440I		
a = 0.347771 + 1.278000I	5.45652 - 5.74955I	8.27153 + 6.35837I
b = 1.033350 - 0.461461I		
u = -0.40315 + 1.41421I		
a = 0.190985 - 0.550246I	6.81786 + 5.34505I	0
b = 0.348570 - 0.863292I		
u = -0.40315 - 1.41421I		
a = 0.190985 + 0.550246I	6.81786 - 5.34505I	0
b = 0.348570 + 0.863292I		
u = 0.52142 + 1.40786I		
a = -0.41170 - 1.42636I	0.43903 - 12.59080I	0
b = 1.117850 - 0.729506I		
u = 0.52142 - 1.40786I		
a = -0.41170 + 1.42636I	0.43903 + 12.59080I	0
b = 1.117850 + 0.729506I		
u = -0.62249 + 1.37484I		
a = -0.533773 + 0.267110I	3.66078 + 2.71789I	0
b = -0.794629 + 0.526308I		
u = -0.62249 - 1.37484I		
a = -0.533773 - 0.267110I	3.66078 - 2.71789I	0
b = -0.794629 - 0.526308I		

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.452328 + 0.182517I $a = -0.775066 + 0.069599I$ $b = 0.182906 - 0.784119I$	2.76640 + 1.62363I	5.37285 - 3.69344I
u = -0.452328 - 0.182517I $a = -0.775066 - 0.069599I$ $b = 0.182906 + 0.784119I$	2.76640 - 1.62363I	5.37285 + 3.69344I
u = -0.23658 + 1.50088I $a = -0.697005 + 0.179142I$ $b = 1.259650 + 0.155114I$	12.4798 + 7.9130I	0
u = -0.23658 - 1.50088I $a = -0.697005 - 0.179142I$ $b = 1.259650 - 0.155114I$	12.4798 - 7.9130I	0
u = -0.398905 + 0.257394I $a = 1.275610 + 0.173707I$ $b = 0.796240 - 0.210293I$	1.231150 - 0.339540I	8.48317 + 1.18283I
u = -0.398905 - 0.257394I $a = 1.275610 - 0.173707I$ $b = 0.796240 + 0.210293I$	1.231150 + 0.339540I	8.48317 - 1.18283I
u = -0.45854 + 1.47063I $a = 1.03639 - 1.31302I$ $b = -0.907266 - 0.539160I$	4.03499 + 7.02654I	0
u = -0.45854 - 1.47063I $a = 1.03639 + 1.31302I$ $b = -0.907266 + 0.539160I$	4.03499 - 7.02654I	0
u = -0.45869 + 1.51594I $a = -0.391021 + 0.671604I$ $b = -0.594978 + 0.999319I$	4.62335 + 9.74269I	0
u = -0.45869 - 1.51594I $a = -0.391021 - 0.671604I$ $b = -0.594978 - 0.999319I$	4.62335 - 9.74269I	0

Solutions to $I_1^u$	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.43792 + 1.56540I		
a = -0.592932 + 1.155750I	9.08319 + 10.71720I	0
b = 1.121840 + 0.613720I		
u = -0.43792 - 1.56540I		
a = -0.592932 - 1.155750I	9.08319 - 10.71720I	0
b = 1.121840 - 0.613720I		
u = -0.48396 + 1.59795I		
a = 0.448307 - 1.330000I	6.3330 + 16.0842I	0
b = -1.130750 - 0.741204I		
u = -0.48396 - 1.59795I		
a = 0.448307 + 1.330000I	6.3330 - 16.0842I	0
b = -1.130750 + 0.741204I		
u = -0.148251 + 0.239950I		
a = 1.71349 + 3.10527I	6.92468 + 1.07292I	11.82072 - 0.64085I
b = -1.043500 - 0.215301I		
u = -0.148251 - 0.239950I		
a = 1.71349 - 3.10527I	6.92468 - 1.07292I	11.82072 + 0.64085I
b = -1.043500 + 0.215301I		
u = 0.093432 + 0.176931I		
a = 3.34527 - 2.60951I	-1.69196 - 0.57556I	-4.55877 - 0.73024I
b = -0.284902 - 0.457886I		
u = 0.093432 - 0.176931I		
a = 3.34527 + 2.60951I	-1.69196 + 0.57556I	-4.55877 + 0.73024I
b = -0.284902 + 0.457886I		

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

(i) Arc colorings

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

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

$$a_{4} = \begin{pmatrix} u^{4} + u^{3} + 2u^{2} + u + 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{3} = \begin{pmatrix} u^{4} + u^{3} + 2u^{2} + u + 1 \\ 0 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} u^{4} + u^{3} + 2u^{2} + u + 1 \\ u \end{pmatrix}$$

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

$$a_{11} = \begin{pmatrix} u^{4} + u^{3} + 2u^{2} + u + 1 \\ u \end{pmatrix}$$

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

$$a_{6} = \begin{pmatrix} u \\ u^{4} + u^{3} + u^{2} + 1 \\ u^{4} + u^{3} + u^{2} + 1 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 0 \\ -u \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes =  $-u^4 + 4u^3 + 2u^2 + 5u + 2$

#### (iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
$c_1, c_2$	$(u-1)^5$
$c_3, c_7, c_8$	$u^5$
$c_4$	$(u+1)^5$
$c_5, c_6$	$u^5 - u^4 - 2u^3 + u^2 + u + 1$
<i>C</i> 9	$u^5 + u^4 + 2u^3 + u^2 + u + 1$
$c_{10}$	$u^5 - 3u^4 + 4u^3 - u^2 - u + 1$
$c_{11}$	$u^5 + u^4 - 2u^3 - u^2 + u - 1$
$c_{12}$	$u^5 - u^4 + 2u^3 - u^2 + u - 1$

## (v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
$c_1, c_2, c_4$	$(y-1)^5$
$c_3, c_7, c_8$	$y^5$
$c_5, c_6, c_{11}$	$y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1$
$c_{9}, c_{12}$	$y^5 + 3y^4 + 4y^3 + y^2 - y - 1$
$c_{10}$	$y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1$

## (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 = -0.428550 + 1.039280I	-1.31583 - 1.53058I	-0.02714 + 4.76366I
b = 0		
u = 0.339110 - 0.822375I		
a = -0.428550 - 1.039280I	-1.31583 + 1.53058I	-0.02714 - 4.76366I
b = 0		
u = -0.766826		
a = 1.30408	0.756147	-2.80750
b = 0		
u = -0.455697 + 1.200150I		
a = 0.276511 + 0.728237I	4.22763 + 4.40083I	4.43089 - 2.80751I
b = 0		
u = -0.455697 - 1.200150I		
a = 0.276511 - 0.728237I	4.22763 - 4.40083I	4.43089 + 2.80751I
b = 0		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
$c_1$	$((u-1)^5)(u^{88} + 46u^{87} + \dots + 7u + 1)$
$c_2$	$((u-1)^5)(u^{88} - 6u^{87} + \dots + 7u - 1)$
$c_{3}, c_{8}$	$u^5(u^{88} + u^{87} + \dots - 32u + 32)$
$c_4$	$((u+1)^5)(u^{88} - 6u^{87} + \dots + 7u - 1)$
$c_5, c_6$	$(u^5 - u^4 - 2u^3 + u^2 + u + 1)(u^{88} - 2u^{87} + \dots + u - 1)$
	$u^5(u^{88} - 33u^{87} + \dots - 18944u + 1024)$
<i>c</i> 9	$(u^5 + u^4 + 2u^3 + u^2 + u + 1)(u^{88} - 14u^{87} + \dots - 3387u + 207)$
$c_{10}$	$(u^5 - 3u^4 + 4u^3 - u^2 - u + 1)(u^{88} + 6u^{87} + \dots - 4287u - 1585)$
$c_{11}$	$(u^5 + u^4 - 2u^3 - u^2 + u - 1)(u^{88} - 2u^{87} + \dots + u - 1)$
$c_{12}$	$(u^5 - u^4 + 2u^3 - u^2 + u - 1)(u^{88} - 14u^{87} + \dots - 3387u + 207)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
$c_1$	$((y-1)^5)(y^{88} - 2y^{87} + \dots + 17y + 1)$
$c_2, c_4$	$((y-1)^5)(y^{88} - 46y^{87} + \dots - 7y + 1)$
$c_3, c_8$	$y^5(y^{88} - 33y^{87} + \dots - 18944y + 1024)$
$c_5, c_6, c_{11}$	$(y^5 - 5y^4 + 8y^3 - 3y^2 - y - 1)(y^{88} - 82y^{87} + \dots + 11y + 1)$
$c_7$	$y^5(y^{88} + 35y^{87} + \dots + 3538944y + 1048576)$
$c_9, c_{12}$	$(y^5 + 3y^4 + 4y^3 + y^2 - y - 1)(y^{88} + 66y^{87} + \dots + 2032911y + 42849)$
$c_{10}$	$(y^5 - y^4 + 8y^3 - 3y^2 + 3y - 1)$ $\cdot (y^{88} - 26y^{87} + \dots - 57768789y + 2512225)$