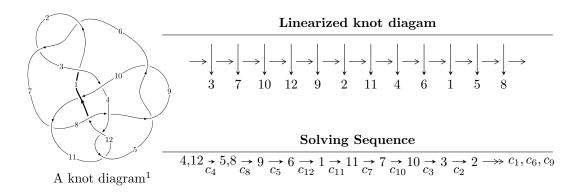
$12a_{0659} \ (K12a_{0659})$



Ideals for irreducible components² of X_{par}

$$\begin{split} I_1^u &= \langle 3.09510 \times 10^{887} u^{168} + 1.93391 \times 10^{887} u^{167} + \dots + 5.11630 \times 10^{888} b - 1.15540 \times 10^{892}, \\ &- 7.90794 \times 10^{888} u^{168} + 1.64481 \times 10^{891} u^{167} + \dots + 9.53897 \times 10^{891} a + 2.08425 \times 10^{895}, \\ &- u^{169} + 2 u^{168} + \dots + 65269 u + 13051 \rangle \\ I_2^u &= \langle -9.26459 \times 10^{33} u^{37} + 1.06188 \times 10^{34} u^{36} + \dots + 3.68110 \times 10^{33} b - 4.69466 \times 10^{34}, \\ &- 1.86555 \times 10^{34} u^{37} + 2.19102 \times 10^{34} u^{36} + \dots + 2.57677 \times 10^{34} a - 3.37189 \times 10^{35}, \ u^{38} - u^{37} + \dots + 3u - 7 \rangle \end{split}$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 207 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.
$$I_1^u = \langle 3.10 \times 10^{887} u^{168} + 1.93 \times 10^{887} u^{167} + \dots + 5.12 \times 10^{888} b - 1.16 \times 10^{892}, \ 7.91 \times 10^{888} u^{168} + 1.64 \times 10^{891} u^{167} + \dots + 9.54 \times 10^{891} a + 2.08 \times 10^{895}, \ u^{169} + 2u^{168} + \dots + 65269 u + 13051 \rangle$$

(i) Arc colorings

$$\begin{array}{l} a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix} \\ a_5 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix} \\ a_8 = \begin{pmatrix} -0.000829014u^{168} - 0.172431u^{167} + \cdots - 12895.8u - 2184.99 \\ -0.0604950u^{168} - 0.0377989u^{167} + \cdots + 12402.5u + 2258.27 \end{pmatrix} \\ a_9 = \begin{pmatrix} 0.0596660u^{168} - 0.134632u^{167} + \cdots - 25298.3u - 4443.26 \\ -0.0604950u^{168} - 0.0377989u^{167} + \cdots + 12402.5u + 2258.27 \end{pmatrix} \\ a_6 = \begin{pmatrix} 0.349624u^{168} + 0.751468u^{167} + \cdots - 2742.15u - 1350.08 \\ -0.295949u^{168} - 0.736332u^{167} + \cdots - 3667.78u + 102.662 \end{pmatrix} \\ a_1 = \begin{pmatrix} 0.0470350u^{168} + 0.0467437u^{167} + \cdots - 7824.49u - 1349.44 \\ -0.105932u^{168} - 0.194999u^{167} + \cdots + 6946.06u + 1538.27 \end{pmatrix} \\ a_{11} = \begin{pmatrix} u \\ u^3 + u \end{pmatrix} \\ a_7 = \begin{pmatrix} 0.0906963u^{168} - 0.0344680u^{167} + \cdots - 22511.8u - 3998.89 \\ -0.100914u^{168} - 0.208313u^{167} + \cdots + 4534.85u + 1032.82 \end{pmatrix} \\ a_{10} = \begin{pmatrix} 0.447630u^{168} - 0.986075u^{167} + \cdots - 2487.51u + 557.448 \\ 0.149530u^{168} + 0.381710u^{167} + \cdots + 2813.98u + 79.8128 \end{pmatrix} \\ a_3 = \begin{pmatrix} 0.158314u^{168} + 0.624237u^{167} + \cdots + 19953.4u + 3201.62 \\ 0.00889723u^{168} - 0.170628u^{167} + \cdots - 17746.0u - 3123.31 \end{pmatrix} \\ a_2 = \begin{pmatrix} -0.00970490u^{168} + 0.419594u^{167} + \cdots + 39719.3u + 7112.40 \\ 0.0498702u^{168} - 0.124749u^{167} + \cdots - 21725.9u - 4006.80 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-1.41920u^{168} 2.44682u^{167} + \cdots + 38884.9u + 9544.51$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{169} + 80u^{168} + \dots + 99813u + 2401$
c_2, c_6	$u^{169} - 2u^{168} + \dots - 49u + 49$
<i>c</i> ₃	$u^{169} + 2u^{168} + \dots + 11167u + 523$
c_4, c_{11}	$u^{169} + 2u^{168} + \dots + 65269u + 13051$
c_{5}, c_{9}	$u^{169} + 16u^{168} + \dots + 3871835u + 205027$
	$u^{169} + 4u^{168} + \dots - 7867u + 18377$
c ₈	$u^{169} - u^{168} + \dots + 2292504u + 164545$
c_{10}	$u^{169} - 14u^{168} + \dots - 13650u + 6089$
c_{12}	$u^{169} - 3u^{168} + \dots + 496671u + 144999$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{169} + 28y^{168} + \dots - 55412679y - 5764801$
c_2, c_6	$y^{169} - 80y^{168} + \dots + 99813y - 2401$
c ₃	$y^{169} - 14y^{168} + \dots - 3774107y - 273529$
c_4,c_{11}	$y^{169} + 90y^{168} + \dots + 67826243y - 170328601$
c_{5}, c_{9}	$y^{169} - 216y^{168} + \dots + 4325021500815y - 42036070729$
	$y^{169} + 10y^{168} + \dots + 44572417095y - 337714129$
<i>c</i> ₈	$y^{169} + 7y^{168} + \dots + 2188189227116y - 27075057025$
c_{10}	$y^{169} + 122y^{168} + \dots + 1911336200y - 37075921$
c_{12}	$y^{169} + 141y^{168} + \dots - 1184216769423y - 21024710001$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.071971 + 0.993217I		
a = -6.75716 - 0.40615I	0.07454 - 2.04421I	0
b = -0.147600 + 0.008410I		
u = 0.071971 - 0.993217I		
a = -6.75716 + 0.40615I	0.07454 + 2.04421I	0
b = -0.147600 - 0.008410I		
u = 0.404057 + 0.920241I		
a = -0.21246 + 1.73079I	-6.35368 - 2.60436I	0
b = -1.079020 - 0.354825I		
u = 0.404057 - 0.920241I		
a = -0.21246 - 1.73079I	-6.35368 + 2.60436I	0
b = -1.079020 + 0.354825I		
u = -0.824347 + 0.531630I		
a = -0.013021 + 0.212634I	-5.27801 - 0.92055I	0
b = 0.737459 + 0.612624I		
u = -0.824347 - 0.531630I		
a = -0.013021 - 0.212634I	-5.27801 + 0.92055I	0
b = 0.737459 - 0.612624I		
u = 0.390660 + 0.895610I		
a = -1.053550 + 0.037286I	4.19117 - 1.87219I	0
b = -0.23714 - 1.41292I		
u = 0.390660 - 0.895610I		
a = -1.053550 - 0.037286I	4.19117 + 1.87219I	0
b = -0.23714 + 1.41292I		
u = -0.188896 + 0.952600I		
a = 1.54752 - 0.79819I	-0.96768 + 3.48500I	0
b = 0.576613 + 0.697087I		
u = -0.188896 - 0.952600I		
a = 1.54752 + 0.79819I	-0.96768 - 3.48500I	0
b = 0.576613 - 0.697087I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.375613 + 0.962743I		
a = -0.56678 + 1.39008I	-6.02639 - 2.22210I	0
b = -1.57564 - 1.06478I		
u = 0.375613 - 0.962743I		
a = -0.56678 - 1.39008I	-6.02639 + 2.22210I	0
b = -1.57564 + 1.06478I		
u = -0.397050 + 0.955002I		
a = 0.22551 + 1.64884I	-0.35863 + 6.14587I	0
b = 0.751854 - 0.409735I		
u = -0.397050 - 0.955002I		
a = 0.22551 - 1.64884I	-0.35863 - 6.14587I	0
b = 0.751854 + 0.409735I		
u = 0.141688 + 0.954367I		
a = -1.55942 - 0.80579I	-0.241484 + 0.420460I	0
b = -0.633617 + 0.645514I		
u = 0.141688 - 0.954367I		
a = -1.55942 + 0.80579I	-0.241484 - 0.420460I	0
b = -0.633617 - 0.645514I		
u = -0.182135 + 0.939602I		
a = 0.151299 + 1.280790I	2.46874 + 2.52877I	0
b = 0.279820 - 0.160729I		
u = -0.182135 - 0.939602I		
a = 0.151299 - 1.280790I	2.46874 - 2.52877I	0
b = 0.279820 + 0.160729I		
u = 0.416983 + 0.961676I		
a = -0.24370 + 1.66418I	-2.77596 - 11.85740I	0
b = -0.735547 - 0.497363I		
u = 0.416983 - 0.961676I		
a = -0.24370 - 1.66418I	-2.77596 + 11.85740I	0
b = -0.735547 + 0.497363I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.946715 + 0.092314I		
a = 0.832100 - 0.781319I	0.85553 + 8.76180I	0
b = 0.379620 - 0.918901I		
u = -0.946715 - 0.092314I		
a = 0.832100 + 0.781319I	0.85553 - 8.76180I	0
b = 0.379620 + 0.918901I		
u = -0.263450 + 0.904249I		
a = 0.045603 + 1.151000I	0.43172 - 1.78570I	0
b = 1.18660 - 1.49972I		
u = -0.263450 - 0.904249I		
a = 0.045603 - 1.151000I	0.43172 + 1.78570I	0
b = 1.18660 + 1.49972I		
u = 0.342947 + 0.869493I		
a = -0.237085 - 0.837871I	-1.25330 - 1.62013I	0
b = -0.210441 + 0.733591I		
u = 0.342947 - 0.869493I		
a = -0.237085 + 0.837871I	-1.25330 + 1.62013I	0
b = -0.210441 - 0.733591I		
u = -0.513243 + 0.944588I		
a = -0.493569 - 0.512567I	-3.96229 + 5.71948I	0
b = -0.283119 + 1.285920I		
u = -0.513243 - 0.944588I		
a = -0.493569 + 0.512567I	-3.96229 - 5.71948I	0
b = -0.283119 - 1.285920I		
u = -1.050290 + 0.231064I		
a = 0.238336 - 0.611188I	-5.20445 - 0.20484I	0
b = 0.670309 - 0.238520I		
u = -1.050290 - 0.231064I		
a = 0.238336 + 0.611188I	-5.20445 + 0.20484I	0
b = 0.670309 + 0.238520I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.790375 + 0.730412I		
a = 0.646829 - 0.540363I	-3.73742 + 6.16455I	0
b = 0.740813 - 0.067067I		
u = -0.790375 - 0.730412I		
a = 0.646829 + 0.540363I	-3.73742 - 6.16455I	0
b = 0.740813 + 0.067067I		
u = 0.228252 + 0.890872I		
a = 0.674429 - 0.333317I	-2.13027 - 10.09330I	0
b = 2.33525 - 0.88707I		
u = 0.228252 - 0.890872I		
a = 0.674429 + 0.333317I	-2.13027 + 10.09330I	0
b = 2.33525 + 0.88707I		
u = -1.026390 + 0.341642I		
a = -0.386240 - 1.116300I	-6.48231 - 5.60638I	0
b = -0.921633 - 0.915020I		
u = -1.026390 - 0.341642I		
a = -0.386240 + 1.116300I	-6.48231 + 5.60638I	0
b = -0.921633 + 0.915020I		
u = 0.140979 + 0.901460I		
a = -1.31429 - 0.60895I	-0.37685 - 1.78132I	0
b = -0.385048 + 0.656951I		
u = 0.140979 - 0.901460I		
a = -1.31429 + 0.60895I	-0.37685 + 1.78132I	0
b = -0.385048 - 0.656951I		
u = -0.545920 + 0.942971I		
a = 0.174146 - 0.277879I	-3.52379 + 5.83913I	0
b = 0.493029 + 0.749605I		
u = -0.545920 - 0.942971I		
a = 0.174146 + 0.277879I	-3.52379 - 5.83913I	0
b = 0.493029 - 0.749605I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.195476 + 0.884441I		
a = 1.55103 - 0.72463I	-1.17741 - 1.75927I	0
b = 0.476684 + 0.705196I		
u = -0.195476 - 0.884441I		
a = 1.55103 + 0.72463I	-1.17741 + 1.75927I	0
b = 0.476684 - 0.705196I		
u = -0.873185 + 0.200462I		
a = 0.480743 + 0.977257I	-2.18869 - 1.83282I	0
b = 0.323378 + 0.766446I		
u = -0.873185 - 0.200462I		
a = 0.480743 - 0.977257I	-2.18869 + 1.83282I	0
b = 0.323378 - 0.766446I		
u = -0.305234 + 1.065120I		
a = -1.65870 - 0.31151I	4.24308 - 1.31842I	0
b = -0.927039 + 1.054910I		
u = -0.305234 - 1.065120I		
a = -1.65870 + 0.31151I	4.24308 + 1.31842I	0
b = -0.927039 - 1.054910I		
u = 0.288281 + 0.836276I		
a = 0.080486 + 1.368210I	-2.18128 + 7.70563I	0
b = -0.94538 - 1.35979I		
u = 0.288281 - 0.836276I		
a = 0.080486 - 1.368210I	-2.18128 - 7.70563I	0
b = -0.94538 + 1.35979I		
u = 0.880267 + 0.067169I		
a = 0.722470 - 1.088100I	0.95739 + 5.08049I	0
b = 0.903527 - 0.705991I		
u = 0.880267 - 0.067169I		
a = 0.722470 + 1.088100I	0.95739 - 5.08049I	0
b = 0.903527 + 0.705991I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.305263 + 0.821841I		
a = 0.244593 - 0.366378I	-0.95903 - 1.42850I	0
b = -0.83222 + 1.66655I		
u = 0.305263 - 0.821841I		
a = 0.244593 + 0.366378I	-0.95903 + 1.42850I	0
b = -0.83222 - 1.66655I		
u = -0.169987 + 0.853044I		
a = -0.529312 - 0.408865I	0.03715 + 3.89112I	0
b = -2.69051 - 0.66691I		
u = -0.169987 - 0.853044I		
a = -0.529312 + 0.408865I	0.03715 - 3.89112I	0
b = -2.69051 + 0.66691I		
u = 0.217144 + 1.116520I		
a = -0.824075 + 1.077390I	1.87631 + 2.16809I	0
b = -0.360306 - 0.396861I		
u = 0.217144 - 1.116520I		
a = -0.824075 - 1.077390I	1.87631 - 2.16809I	0
b = -0.360306 + 0.396861I		
u = 1.117860 + 0.236165I		
a = 0.451781 - 0.995277I	-0.88968 + 8.60210I	0
b = 0.856043 - 0.861770I		
u = 1.117860 - 0.236165I		
a = 0.451781 + 0.995277I	-0.88968 - 8.60210I	0
b = 0.856043 + 0.861770I		
u = 0.119812 + 1.139070I		
a = -0.782041 + 0.202206I	6.36764 - 0.28160I	0
b = -0.79641 - 1.53061I		
u = 0.119812 - 1.139070I		
a = -0.782041 - 0.202206I	6.36764 + 0.28160I	0
b = -0.79641 + 1.53061I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.691698 + 0.928258I		
a = 1.122520 - 0.367720I	1.17602 - 1.69304I	0
b = 0.28163 - 1.55427I		
u = -0.691698 - 0.928258I		
a = 1.122520 + 0.367720I	1.17602 + 1.69304I	0
b = 0.28163 + 1.55427I		
u = -0.503719 + 0.671993I		
a = -0.576045 - 1.044330I	-4.20057 - 1.38927I	0
b = -0.217398 + 0.766926I		
u = -0.503719 - 0.671993I		
a = -0.576045 + 1.044330I	-4.20057 + 1.38927I	0
b = -0.217398 - 0.766926I		
u = 0.830280 + 0.085868I		
a = -0.908349 - 0.917650I	2.73800 - 3.67058I	0
b = -0.315914 - 0.925502I		
u = 0.830280 - 0.085868I		
a = -0.908349 + 0.917650I	2.73800 + 3.67058I	0
b = -0.315914 + 0.925502I		
u = 0.393657 + 1.101140I		
a = -1.043910 + 0.072237I	-0.92755 - 2.66990I	0
b = -0.783103 - 0.212485I		
u = 0.393657 - 1.101140I		
a = -1.043910 - 0.072237I	-0.92755 + 2.66990I	0
b = -0.783103 + 0.212485I		
u = 0.369621 + 1.129080I		
a = 1.50291 - 0.23061I	6.24642 - 4.46939I	0
b = 0.839731 + 1.065180I		
u = 0.369621 - 1.129080I		
a = 1.50291 + 0.23061I	6.24642 + 4.46939I	0
b = 0.839731 - 1.065180I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.057317 + 1.192530I		
a = -0.831583 + 0.027728I	-0.17178 - 2.28821I	0
b = -0.237122 + 0.648927I		
u = -0.057317 - 1.192530I		
a = -0.831583 - 0.027728I	-0.17178 + 2.28821I	0
b = -0.237122 - 0.648927I		
u = 0.496350 + 0.624439I		
a = -0.935939 - 0.842250I	-1.70913 - 1.86501I	0
b = -0.814318 - 0.052970I		
u = 0.496350 - 0.624439I		
a = -0.935939 + 0.842250I	-1.70913 + 1.86501I	0
b = -0.814318 + 0.052970I		
u = -1.174790 + 0.265699I		
a = -0.410477 - 0.958935I	-3.1868 - 14.1215I	0
b = -0.831369 - 0.879557I		
u = -1.174790 - 0.265699I		
a = -0.410477 + 0.958935I	-3.1868 + 14.1215I	0
b = -0.831369 + 0.879557I		
u = -0.154009 + 1.206350I		
a = 0.796943 + 0.196662I	5.87383 + 5.14582I	0
b = 0.86302 - 1.36563I		
u = -0.154009 - 1.206350I		
a = 0.796943 - 0.196662I	5.87383 - 5.14582I	0
b = 0.86302 + 1.36563I		
u = 1.127950 + 0.475936I		
a = -0.213103 + 0.358544I	-5.97733 - 1.37962I	0
b = -0.634742 + 0.602299I		
u = 1.127950 - 0.475936I		
a = -0.213103 - 0.358544I	-5.97733 + 1.37962I	0
b = -0.634742 - 0.602299I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.658536 + 1.035650I		
a = -0.854151 - 0.382246I	4.57555 - 2.56623I	0
b = -0.07277 - 1.44169I		
u = 0.658536 - 1.035650I		
a = -0.854151 + 0.382246I	4.57555 + 2.56623I	0
b = -0.07277 + 1.44169I		
u = -0.257982 + 1.200630I		
a = 0.708670 + 0.398371I	2.84934 + 2.13074I	0
b = 0.520250 - 0.715455I		
u = -0.257982 - 1.200630I		
a = 0.708670 - 0.398371I	2.84934 - 2.13074I	0
b = 0.520250 + 0.715455I		
u = -1.170530 + 0.374934I		
a = 0.209174 + 0.511854I	-3.34643 - 0.99719I	0
b = 0.532513 + 0.573892I		
u = -1.170530 - 0.374934I		
a = 0.209174 - 0.511854I	-3.34643 + 0.99719I	0
b = 0.532513 - 0.573892I		
u = 0.319044 + 0.671473I		
a = 1.59772 - 0.82338I	-7.20616 - 0.68122I	0
b = 1.70423 + 0.00615I		
u = 0.319044 - 0.671473I		
a = 1.59772 + 0.82338I	-7.20616 + 0.68122I	0
b = 1.70423 - 0.00615I		
u = -0.751941 + 1.012280I		
a = 0.812655 - 0.629044I	1.41455 + 7.41770I	0
b = -0.10547 - 1.55256I		
u = -0.751941 - 1.012280I		
a = 0.812655 + 0.629044I	1.41455 - 7.41770I	0
b = -0.10547 + 1.55256I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.417618 + 1.195530I		
a = 0.984447 + 0.463603I	3.96135 + 3.75228I	0
b = 1.42520 - 1.25467I		
u = -0.417618 - 1.195530I		
a = 0.984447 - 0.463603I	3.96135 - 3.75228I	0
b = 1.42520 + 1.25467I		
u = 1.204870 + 0.390600I		
a = -0.296872 + 0.461394I	-5.23463 + 4.94808I	0
b = -0.569100 + 0.638486I		
u = 1.204870 - 0.390600I		
a = -0.296872 - 0.461394I	-5.23463 - 4.94808I	0
b = -0.569100 - 0.638486I		
u = -0.532213 + 1.153990I		
a = -1.261510 - 0.056165I	0.66304 + 6.88978I	0
b = -0.764913 + 1.059370I		
u = -0.532213 - 1.153990I		
a = -1.261510 + 0.056165I	0.66304 - 6.88978I	0
b = -0.764913 - 1.059370I		
u = 0.467359 + 0.543481I		
a = 1.64874 - 0.21188I	-3.99349 + 8.14520I	0
b = 1.365060 - 0.296866I		
u = 0.467359 - 0.543481I		
a = 1.64874 + 0.21188I	-3.99349 - 8.14520I	0
b = 1.365060 + 0.296866I		
u = -0.326108 + 1.241560I		
a = 0.770191 + 0.247372I	3.81852 + 3.16843I	0
b = 1.209640 - 0.534494I		
u = -0.326108 - 1.241560I		
a = 0.770191 - 0.247372I	3.81852 - 3.16843I	0
b = 1.209640 + 0.534494I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.285360 + 0.651720I		
a = 0.84047 - 1.17009I	-7.10053 - 0.86035I	0
b = 2.04145 - 0.14960I		
u = 0.285360 - 0.651720I		
a = 0.84047 + 1.17009I	-7.10053 + 0.86035I	0
b = 2.04145 + 0.14960I		
u = -0.259118 + 1.266840I		
a = 0.508936 + 0.283237I	2.78104 + 2.08109I	0
b = 0.303794 - 0.853968I		
u = -0.259118 - 1.266840I		
a = 0.508936 - 0.283237I	2.78104 - 2.08109I	0
b = 0.303794 + 0.853968I		
u = -0.536068 + 1.179860I		
a = -0.659149 + 0.517664I	3.19553 + 4.85072I	0
b = 0.003379 + 0.684091I		
u = -0.536068 - 1.179860I		
a = -0.659149 - 0.517664I	3.19553 - 4.85072I	0
b = 0.003379 - 0.684091I		
u = 0.281539 + 1.276110I		
a = 0.497110 - 0.083958I	3.64245 - 4.08039I	0
b = 1.39022 + 1.54914I		
u = 0.281539 - 1.276110I		
a = 0.497110 + 0.083958I	3.64245 + 4.08039I	0
b = 1.39022 - 1.54914I		
u = -0.686384 + 0.091439I		
a = -1.00242 + 1.03295I	0.347701 - 0.238946I	0
b = -0.803790 + 0.536793I		
u = -0.686384 - 0.091439I		
a = -1.00242 - 1.03295I	0.347701 + 0.238946I	0
b = -0.803790 - 0.536793I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.366346 + 1.275320I		
a = -0.744893 + 0.162439I	2.56246 - 8.44652I	0
b = -1.203740 - 0.264801I		
u = 0.366346 - 1.275320I		
a = -0.744893 - 0.162439I	2.56246 + 8.44652I	0
b = -1.203740 + 0.264801I		
u = 0.441247 + 1.251820I		
a = 1.287610 - 0.266463I	6.69747 - 8.17069I	0
b = 0.784742 + 1.039990I		
u = 0.441247 - 1.251820I		
a = 1.287610 + 0.266463I	6.69747 + 8.17069I	0
b = 0.784742 - 1.039990I		
u = -1.274550 + 0.372534I		
a = 0.117699 + 0.535596I	-3.04091 - 0.52569I	0
b = 0.463124 + 0.469958I		
u = -1.274550 - 0.372534I		
a = 0.117699 - 0.535596I	-3.04091 + 0.52569I	0
b = 0.463124 - 0.469958I		
u = 0.401648 + 1.266480I		
a = 0.697790 + 0.357500I	5.12104 + 0.53108I	0
b = 0.081924 + 0.653907I		
u = 0.401648 - 1.266480I		
a = 0.697790 - 0.357500I	5.12104 - 0.53108I	0
b = 0.081924 - 0.653907I		
u = 0.500054 + 1.235120I		
a = -1.100900 + 0.336027I	4.46681 - 10.03180I	0
b = -1.28711 - 1.36603I		
u = 0.500054 - 1.235120I		
a = -1.100900 - 0.336027I	4.46681 + 10.03180I	0
b = -1.28711 + 1.36603I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.362080 + 0.062506I		
a = -0.145788 + 0.496549I	-5.54514 + 2.31776I	0
b = -0.525907 + 0.324411I		
u = 1.362080 - 0.062506I		
a = -0.145788 - 0.496549I	-5.54514 - 2.31776I	0
b = -0.525907 - 0.324411I		
u = -0.460706 + 1.283840I		
a = -1.242990 - 0.284796I	5.0311 + 13.6329I	0
b = -0.777099 + 1.038040I		
u = -0.460706 - 1.283840I		
a = -1.242990 + 0.284796I	5.0311 - 13.6329I	0
b = -0.777099 - 1.038040I		
u = 0.637316 + 1.208840I		
a = 0.785291 - 0.308889I	-3.43554 - 4.83997I	0
b = 0.729433 + 1.168050I		
u = 0.637316 - 1.208840I		
a = 0.785291 + 0.308889I	-3.43554 + 4.83997I	0
b = 0.729433 - 1.168050I		
u = -0.387993 + 0.493788I		
a = -1.85677 - 0.29078I	-1.64923 - 2.66846I	-12.00000 + 0.I
b = -1.325860 - 0.185760I		
u = -0.387993 - 0.493788I		
a = -1.85677 + 0.29078I	-1.64923 + 2.66846I	-12.00000 + 0.I
b = -1.325860 + 0.185760I		
u = -0.625993 + 1.222900I		
a = 1.211070 + 0.180452I	-3.69394 + 11.54680I	0
b = 1.14043 - 1.48804I		
u = -0.625993 - 1.222900I		
a = 1.211070 - 0.180452I	-3.69394 - 11.54680I	0
b = 1.14043 + 1.48804I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.549587 + 1.277010I		
a = -0.540999 - 0.152276I	6.05434 - 1.46489I	0
b = -0.076538 - 1.151240I		
u = 0.549587 - 1.277010I		
a = -0.540999 + 0.152276I	6.05434 + 1.46489I	0
b = -0.076538 + 1.151240I		
u = -0.326097 + 1.361830I		
a = -0.552958 - 0.058000I	2.65004 + 9.62282I	0
b = -1.30839 + 1.29618I		
u = -0.326097 - 1.361830I		
a = -0.552958 + 0.058000I	2.65004 - 9.62282I	0
b = -1.30839 - 1.29618I		
u = -0.63358 + 1.26993I		
a = -0.874402 - 0.207084I	-0.31462 + 7.34345I	0
b = -0.790637 + 1.106560I		
u = -0.63358 - 1.26993I		
a = -0.874402 + 0.207084I	-0.31462 - 7.34345I	0
b = -0.790637 - 1.106560I		
u = 0.579966 + 0.013541I		
a = 1.60299 - 0.77169I	-1.18981 + 4.87986I	-15.8912 - 3.9873I
b = 0.727515 + 0.281532I		
u = 0.579966 - 0.013541I		
a = 1.60299 + 0.77169I	-1.18981 - 4.87986I	-15.8912 + 3.9873I
b = 0.727515 - 0.281532I		
u = 0.62155 + 1.28592I		
a = -1.134970 + 0.171022I	2.4268 - 14.7556I	0
b = -1.12481 - 1.41157I		
u = 0.62155 - 1.28592I		
a = -1.134970 - 0.171022I	2.4268 + 14.7556I	0
b = -1.12481 + 1.41157I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.65882 + 1.27004I		
a = 0.896377 - 0.288670I	-2.26883 - 11.47300I	0
b = 0.751488 + 1.101580I		
u = 0.65882 - 1.27004I		
a = 0.896377 + 0.288670I	-2.26883 + 11.47300I	0
b = 0.751488 - 1.101580I		
u = -0.65851 + 1.27373I		
a = -0.908575 - 0.068206I	0.01803 + 7.21034I	0
b = -0.823797 + 1.051330I		
u = -0.65851 - 1.27373I		
a = -0.908575 + 0.068206I	0.01803 - 7.21034I	0
b = -0.823797 - 1.051330I		
u = -0.64684 + 1.29797I		
a = 1.128780 + 0.144397I	0.1064 + 20.5307I	0
b = 1.09753 - 1.40683I		
u = -0.64684 - 1.29797I		
a = 1.128780 - 0.144397I	0.1064 - 20.5307I	0
b = 1.09753 + 1.40683I		
u = -0.50679 + 1.37075I		
a = 0.442779 - 0.100032I	4.73469 - 3.19415I	0
b = 0.068053 - 1.066280I		
u = -0.50679 - 1.37075I		
a = 0.442779 + 0.100032I	4.73469 + 3.19415I	0
b = 0.068053 + 1.066280I		
u = 0.461982 + 0.275435I		
a = 1.44013 - 1.31027I	-3.26709 - 0.84766I	-18.3637 + 6.4036I
b = 0.398216 + 0.394923I		
u = 0.461982 - 0.275435I		
a = 1.44013 + 1.31027I	-3.26709 + 0.84766I	-18.3637 - 6.4036I
b = 0.398216 - 0.394923I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.42750 + 0.33983I		
a = -0.094293 + 0.501375I	-4.55201 - 3.61108I	0
b = -0.434215 + 0.396138I		
u = 1.42750 - 0.33983I		
a = -0.094293 - 0.501375I	-4.55201 + 3.61108I	0
b = -0.434215 - 0.396138I		
u = 0.18209 + 1.45775I		
a = 0.618881 + 0.151242I	5.32517 + 3.69723I	0
b = 0.166141 + 0.570926I		
u = 0.18209 - 1.45775I		
a = 0.618881 - 0.151242I	5.32517 - 3.69723I	0
b = 0.166141 - 0.570926I		
u = -0.491184 + 0.050903I		
a = -1.70747 + 0.82728I	0.1139450 + 0.0585443I	-13.14286 + 0.40039I
b = -0.814520 - 0.086870I		
u = -0.491184 - 0.050903I		
a = -1.70747 - 0.82728I	0.1139450 - 0.0585443I	-13.14286 - 0.40039I
b = -0.814520 + 0.086870I		
u = 0.74593 + 1.32001I		
a = 0.840737 + 0.050275I	-1.27042 - 3.78503I	0
b = 0.864487 + 0.988023I		
u = 0.74593 - 1.32001I		
a = 0.840737 - 0.050275I	-1.27042 + 3.78503I	0
b = 0.864487 - 0.988023I		
u = -0.10574 + 1.51875I		
a = -0.584620 + 0.107132I	3.59311 - 9.01922I	0
b = -0.187179 + 0.546848I		
u = -0.10574 - 1.51875I		
a = -0.584620 - 0.107132I	3.59311 + 9.01922I	0
b = -0.187179 - 0.546848I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.59836 + 1.41395I		
a = -0.716438 - 0.027394I	-0.34029 + 5.82757I	0
b = -0.98163 + 1.06231I		
u = -0.59836 - 1.41395I		
a = -0.716438 + 0.027394I	-0.34029 - 5.82757I	0
b = -0.98163 - 1.06231I		
u = 0.426735 + 0.033911I		
a = -1.09192 + 2.18646I	3.26162 + 1.20745I	-7.28255 - 1.87636I
b = -0.054255 + 0.882433I		
u = 0.426735 - 0.033911I		
a = -1.09192 - 2.18646I	3.26162 - 1.20745I	-7.28255 + 1.87636I
b = -0.054255 - 0.882433I		
u = 0.68631 + 1.42394I		
a = 0.750957 + 0.021780I	-1.20093 - 9.43391I	0
b = 0.943056 + 1.000890I		
u = 0.68631 - 1.42394I		
a = 0.750957 - 0.021780I	-1.20093 + 9.43391I	0
b = 0.943056 - 1.000890I		
u = -0.315928		
a = -1.13775	-0.563077	-17.5550
b = -0.374314		
u = -0.258979 + 0.162846I		
a = -0.47515 + 3.35050I	1.88658 + 3.77577I	-9.36355 - 4.34894I
b = -0.093737 + 0.817413I		
u = -0.258979 - 0.162846I		
a = -0.47515 - 3.35050I	1.88658 - 3.77577I	-9.36355 + 4.34894I
b = -0.093737 - 0.817413I		

 $I_2^u = \langle -9.26 \times 10^{33} u^{37} + 1.06 \times 10^{34} u^{36} + \dots + 3.68 \times 10^{33} b - 4.69 \times 10^{34}, \ 1.87 \times 10^{34} u^{37} + 2.19 \times 10^{34} u^{36} + \dots + 2.58 \times 10^{34} a - 3.37 \times 10^{35}, \ u^{38} - u^{37} + \dots + 3u - 7 \rangle$

(i) Arc colorings

$$a_{4} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{12} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} 1 \\ u^{2} \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -0.723989u^{37} - 0.850300u^{36} + \dots + 0.383767u + 13.0857 \\ 2.51680u^{37} - 2.88467u^{36} + \dots - 43.6600u + 12.7534 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -3.24079u^{37} + 2.03437u^{36} + \dots + 44.0437u + 0.332291 \\ 2.51680u^{37} - 2.88467u^{36} + \dots + 43.6600u + 12.7534 \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} -8.22814u^{37} - 0.924459u^{36} + \dots + 27.6477u + 80.0862 \\ 1.57429u^{37} - 1.37040u^{36} + \dots - 12.2577u - 0.932079 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} 9.26890u^{37} - 14.0994u^{36} + \dots - 84.0408u + 28.8621 \\ 2.12031u^{37} - 2.67917u^{36} + \dots - 34.2608u + 16.6758 \end{pmatrix}$$

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

$$a_{7} = \begin{pmatrix} -1.85035u^{37} - 0.0597323u^{36} + \dots + 17.6445u + 12.7405 \\ 1.95897u^{37} - 2.42053u^{36} + \dots - 33.2764u + 10.0577 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 37.1266u^{37} + 12.7977u^{36} + \dots - 48.3304u - 384.256 \\ -0.831295u^{37} + 1.67225u^{36} + \dots + 14.7637u - 10.0765 \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} 6.11229u^{37} - 1.96358u^{36} + \dots - 17.0243u - 31.1563 \\ 1.73365u^{37} - 0.728736u^{36} + \dots - 16.0674u - 14.6397 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} 6.48762u^{37} - 2.56459u^{36} + \dots - 16.0674u - 14.6397 \\ 0.762781u^{37} - 0.240655u^{36} + \dots + 4.30962u - 1.45314 \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $111.194u^{37} + 332.362u^{36} + \cdots + 1066.10u 3234.87$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{38} - 23u^{37} + \dots - 7u + 1$
c_2	$u^{38} - u^{37} + \dots + 3u - 1$
c_3	$u^{38} - u^{37} + \dots - 23u - 1$
<i>C</i> ₄	$u^{38} - u^{37} + \dots + 3u - 7$
<i>C</i> 5	$u^{38} - 13u^{37} + \dots + 23u - 1$
c_6	$u^{38} + u^{37} + \dots - 3u - 1$
c_7	$u^{38} + 3u^{37} + \dots - 23u - 1$
c ₈	$u^{38} - 8u^{36} + \dots - 26u - 1$
<i>c</i> ₉	$u^{38} + 13u^{37} + \dots - 23u - 1$
c_{10}	$u^{38} - 3u^{37} + \dots - 4u + 1$
c_{11}	$u^{38} + u^{37} + \dots - 3u - 7$
c_{12}	$u^{38} + 51u^{36} + \dots - u - 1$
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(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{38} - 7y^{37} + \dots - 15y + 1$
c_2, c_6	$y^{38} - 23y^{37} + \dots - 7y + 1$
c_3	$y^{38} - 25y^{37} + \dots - 139y + 1$
c_4,c_{11}	$y^{38} + 15y^{37} + \dots + 579y + 49$
c_5,c_9	$y^{38} - 131y^{37} + \dots - 129y + 1$
c_7	$y^{38} + 15y^{37} + \dots - 245y + 1$
C ₈	$y^{38} - 16y^{37} + \dots - 214y + 1$
c_{10}	$y^{38} + 91y^{37} + \dots + 18y + 1$
c_{12}	$y^{38} + 102y^{37} + \dots + 25y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.068785 + 0.993757I		
a = 7.07867 - 0.37129I	0.07285 + 2.04381I	-2468.30 + 564.31I
b = 0.146536 + 0.007922I		
u = -0.068785 - 0.993757I		
a = 7.07867 + 0.37129I	0.07285 - 2.04381I	-2468.30 - 564.31I
b = 0.146536 - 0.007922I		
u = 0.379396 + 0.958969I		
a = 0.44378 - 1.56719I	-5.80841 - 2.52072I	-2.76515 + 10.18901I
b = 1.52903 + 0.70091I		
u = 0.379396 - 0.958969I		
a = 0.44378 + 1.56719I	-5.80841 + 2.52072I	-2.76515 - 10.18901I
b = 1.52903 - 0.70091I		
u = -0.160849 + 0.919053I		
a = 0.912315 - 0.656141I	-0.114988 + 0.771095I	-7.72641 + 0.95934I
b = 0.567111 + 1.178310I		
u = -0.160849 - 0.919053I		
a = 0.912315 + 0.656141I	-0.114988 - 0.771095I	-7.72641 - 0.95934I
b = 0.567111 - 1.178310I		
u = -1.067580 + 0.069500I		
a = -0.105560 - 0.276581I	-2.95888 + 0.24404I	-10.57984 - 0.79073I
b = 0.385980 - 0.195825I		
u = -1.067580 - 0.069500I		
a = -0.105560 + 0.276581I	-2.95888 - 0.24404I	-10.57984 + 0.79073I
b = 0.385980 + 0.195825I		
u = 0.371270 + 1.011370I		
a = -0.952047 + 0.218055I	4.72908 - 2.22947I	-4.76251 + 6.78709I
b = -0.158359 - 1.262700I		
u = 0.371270 - 1.011370I		
a = -0.952047 - 0.218055I	4.72908 + 2.22947I	-4.76251 - 6.78709I
b = -0.158359 + 1.262700I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.376578 + 1.009440I		
a = 1.313460 + 0.235500I	3.09141 - 1.93771I	-8.58187 + 2.13613I
b = 0.326565 - 1.049960I		
u = -0.376578 - 1.009440I		
a = 1.313460 - 0.235500I	3.09141 + 1.93771I	-8.58187 - 2.13613I
b = 0.326565 + 1.049960I		
u = 0.382917 + 1.095880I		
a = -0.756944 - 0.132904I	5.09611 - 1.09151I	-6.59309 + 0.I
b = -0.518391 - 1.273920I		
u = 0.382917 - 1.095880I		
a = -0.756944 + 0.132904I	5.09611 + 1.09151I	-6.59309 + 0.I
b = -0.518391 + 1.273920I		
u = -0.490221 + 1.064390I		
a = 0.826867 - 0.449663I	3.23123 + 5.69135I	-8.12016 - 7.77869I
b = 0.354296 - 1.063230I		
u = -0.490221 - 1.064390I		
a = 0.826867 + 0.449663I	3.23123 - 5.69135I	-8.12016 + 7.77869I
b = 0.354296 + 1.063230I		
u = -1.174720 + 0.404625I		
a = -0.024841 + 0.588420I	-4.49252 - 1.42875I	-12.00000 + 5.81313I
b = 0.537932 + 0.627187I		
u = -1.174720 - 0.404625I		
a = -0.024841 - 0.588420I	-4.49252 + 1.42875I	-12.00000 - 5.81313I
b = 0.537932 - 0.627187I		
u = 0.250495 + 0.693972I		
a = -1.29832 + 1.32181I	-6.86514 - 0.47302I	-5.18177 - 7.37772I
b = -2.04339 - 0.17245I		
u = 0.250495 - 0.693972I		
a = -1.29832 - 1.32181I	-6.86514 + 0.47302I	-5.18177 + 7.37772I
b = -2.04339 + 0.17245I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.037736 + 0.700019I		
a = 0.144597 + 1.035880I	-0.20117 - 3.23268I	-11.87116 + 1.40793I
b = 2.04926 - 0.70121I		
u = 0.037736 - 0.700019I		
a = 0.144597 - 1.035880I	-0.20117 + 3.23268I	-11.87116 - 1.40793I
b = 2.04926 + 0.70121I		
u = -0.309769 + 1.263930I		
a = -0.546290 - 0.408662I	2.71461 + 4.34687I	-12.00000 + 0.I
b = -1.53756 + 0.95894I		
u = -0.309769 - 1.263930I		
a = -0.546290 + 0.408662I	2.71461 - 4.34687I	-12.00000 + 0.I
b = -1.53756 - 0.95894I		
u = 1.300020 + 0.086048I		
a = 0.061768 - 0.396046I	-4.42186 - 4.29625I	-12.0000 + 7.9362I
b = -0.350842 - 0.340254I		
u = 1.300020 - 0.086048I		
a = 0.061768 + 0.396046I	-4.42186 + 4.29625I	-12.0000 - 7.9362I
b = -0.350842 + 0.340254I		
u = 1.342560 + 0.225323I		
a = 0.045226 + 0.455874I	-5.20028 - 1.53354I	0
b = -0.413455 + 0.482302I		
u = 1.342560 - 0.225323I		
a = 0.045226 - 0.455874I	-5.20028 + 1.53354I	0
b = -0.413455 - 0.482302I		
u = -0.142519 + 0.615332I		
a = 0.283657 + 1.263000I	-2.62440 + 9.28142I	-14.3549 - 6.0990I
b = -1.60004 - 0.71953I		
u = -0.142519 - 0.615332I		
a = 0.283657 - 1.263000I	-2.62440 - 9.28142I	-14.3549 + 6.0990I
b = -1.60004 + 0.71953I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = -0.602124		
a = -1.13727	-2.74115	-13.6670
b = 0.0915077		
u = 0.37133 + 1.40651I		
a = 0.581579 - 0.249094I	1.68475 - 10.02920I	0
b = 1.26441 + 0.76896I		
u = 0.37133 - 1.40651I		
a = 0.581579 + 0.249094I	1.68475 + 10.02920I	0
b = 1.26441 - 0.76896I		
u = -0.73117 + 1.28190I		
a = -0.832593 + 0.075547I	-1.54865 + 8.27468I	0
b = -0.708190 + 1.183670I		
u = -0.73117 - 1.28190I		
a = -0.832593 - 0.075547I	-1.54865 - 8.27468I	0
b = -0.708190 - 1.183670I		
u = 0.448452		
a = -2.04065	-7.49490	-22.5450
b = -1.38914		
u = 0.66330 + 1.41579I		
a = 0.699351 - 0.027828I	-1.00493 - 5.58039I	0
b = 0.817924 + 0.956923I		
u = 0.66330 - 1.41579I		
a = 0.699351 + 0.027828I	-1.00493 + 5.58039I	0
b = 0.817924 - 0.956923I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$ (u^{38} - 23u^{37} + \dots - 7u + 1)(u^{169} + 80u^{168} + \dots + 99813u + 2401) $
c_2	$(u^{38} - u^{37} + \dots + 3u - 1)(u^{169} - 2u^{168} + \dots - 49u + 49)$
c_3	$(u^{38} - u^{37} + \dots - 23u - 1)(u^{169} + 2u^{168} + \dots + 11167u + 523)$
c_4	$ (u^{38} - u^{37} + \dots + 3u - 7)(u^{169} + 2u^{168} + \dots + 65269u + 13051) $
c_5	$(u^{38} - 13u^{37} + \dots + 23u - 1)$ $\cdot (u^{169} + 16u^{168} + \dots + 3871835u + 205027)$
c_6	$(u^{38} + u^{37} + \dots - 3u - 1)(u^{169} - 2u^{168} + \dots - 49u + 49)$
c_7	$ (u^{38} + 3u^{37} + \dots - 23u - 1)(u^{169} + 4u^{168} + \dots - 7867u + 18377) $
c_8	$ (u^{38} - 8u^{36} + \dots - 26u - 1)(u^{169} - u^{168} + \dots + 2292504u + 164545) $
<i>c</i> ₉	$(u^{38} + 13u^{37} + \dots - 23u - 1)$ $\cdot (u^{169} + 16u^{168} + \dots + 3871835u + 205027)$
c_{10}	$(u^{38} - 3u^{37} + \dots - 4u + 1)(u^{169} - 14u^{168} + \dots - 13650u + 6089)$
c_{11}	$(u^{38} + u^{37} + \dots - 3u - 7)(u^{169} + 2u^{168} + \dots + 65269u + 13051)$
c_{12}	$(u^{38} + 51u^{36} + \dots - u - 1)(u^{169} - 3u^{168} + \dots + 496671u + 144999)$ 31

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{38} - 7y^{37} + \dots - 15y + 1)$ $\cdot (y^{169} + 28y^{168} + \dots - 55412679y - 5764801)$
c_2, c_6	$(y^{38} - 23y^{37} + \dots - 7y + 1)(y^{169} - 80y^{168} + \dots + 99813y - 2401)$
c_3	$(y^{38} - 25y^{37} + \dots - 139y + 1)$ $\cdot (y^{169} - 14y^{168} + \dots - 3774107y - 273529)$
c_4, c_{11}	$(y^{38} + 15y^{37} + \dots + 579y + 49)$ $\cdot (y^{169} + 90y^{168} + \dots + 67826243y - 170328601)$
c_5,c_9	$(y^{38} - 131y^{37} + \dots - 129y + 1)$ $\cdot (y^{169} - 216y^{168} + \dots + 4325021500815y - 42036070729)$
c_7	$(y^{38} + 15y^{37} + \dots - 245y + 1)$ $\cdot (y^{169} + 10y^{168} + \dots + 44572417095y - 337714129)$
c_8	$(y^{38} - 16y^{37} + \dots - 214y + 1)$ $\cdot (y^{169} + 7y^{168} + \dots + 2188189227116y - 27075057025)$
c_{10}	$(y^{38} + 91y^{37} + \dots + 18y + 1)$ $\cdot (y^{169} + 122y^{168} + \dots + 1911336200y - 37075921)$
c_{12}	$(y^{38} + 102y^{37} + \dots + 25y + 1)$ $\cdot (y^{169} + 141y^{168} + \dots - 1184216769423y - 21024710001)$