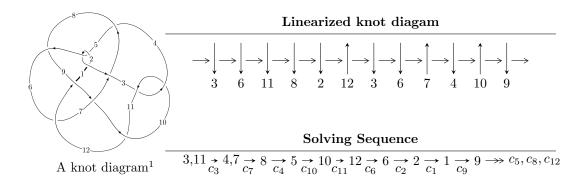
$12n_{0405} \ (K12n_{0405})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle -5.04740 \times 10^{30} u^{55} - 2.66361 \times 10^{30} u^{54} + \dots + 5.37736 \times 10^{30} b - 1.62190 \times 10^{31}, \\ -1.29311 \times 10^{31} u^{55} - 2.08861 \times 10^{29} u^{54} + \dots + 1.07547 \times 10^{31} a + 7.57948 \times 10^{31}, \ u^{56} + u^{55} + \dots + 11u - 12u - 12$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 76 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.

 $I. \\ I_1^u = \langle -5.05 \times 10^{30} u^{55} - 2.66 \times 10^{30} u^{54} + \dots + 5.38 \times 10^{30} b - 1.62 \times 10^{31}, \ -1.29 \times 10^{31} u^{55} - 2.09 \times 10^{29} u^{54} + \dots + 1.08 \times 10^{31} a + 7.58 \times 10^{31}, \ u^{56} + u^{55} + \dots + 11u + 1 \rangle$

(i) Arc colorings

$$a_{3} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

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

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

$$a_{7} = \begin{pmatrix} 1.20236u^{55} + 0.0194204u^{54} + \dots + 2.12491u - 7.04759 \\ 0.938638u^{55} + 0.495339u^{54} + \dots + 12.7233u + 3.01616 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} 0.263723u^{55} - 0.475918u^{54} + \dots - 10.5984u - 10.0637 \\ 0.938638u^{55} + 0.495339u^{54} + \dots + 12.7233u + 3.01616 \end{pmatrix}$$

$$a_{5} = \begin{pmatrix} -1.47729u^{55} - 2.00842u^{54} + \dots - 77.8992u - 24.8854 \\ 1.30201u^{55} + 0.374284u^{54} + \dots + 17.0385u + 5.14052 \end{pmatrix}$$

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

$$a_{12} = \begin{pmatrix} u^{3} \\ u^{5} + u^{3} + u \end{pmatrix}$$

$$a_{6} = \begin{pmatrix} 1.26914u^{55} - 0.0878330u^{54} + \dots + 2.68555u - 7.01937 \\ 0.932246u^{55} + 0.339280u^{54} + \dots + 7.82652u + 2.41420 \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} -0.0113393u^{55} + 0.701676u^{54} + \dots + 33.7128u + 17.2063 \\ -0.985020u^{55} + 0.0619797u^{54} + \dots - 14.0951u - 4.29081 \end{pmatrix}$$

$$a_{1} = \begin{pmatrix} -0.996359u^{55} + 0.763656u^{54} + \dots + 19.6177u + 12.9155 \\ -0.985020u^{55} + 0.0619797u^{54} + \dots - 14.0951u - 4.29081 \end{pmatrix}$$

$$a_{9} = \begin{pmatrix} -0.673812u^{55} + 1.74584u^{54} + \dots + 30.9969u + 11.4293 \\ -1.53887u^{55} - 0.462506u^{54} + \dots + 10.8493u - 3.21916 \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $-3.20118u^{55} 1.25466u^{54} + \cdots 55.5550u 11.0853$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{56} + 81u^{55} + \dots - 82u + 1$
c_2, c_5	$u^{56} + 3u^{55} + \dots + 20u - 1$
c_3,c_{10}	$u^{56} + u^{55} + \dots + 11u + 1$
C ₄	$u^{56} - u^{55} + \dots - 5248u - 1021$
<i>c</i> ₆	$u^{56} - 2u^{55} + \dots + 74u + 127$
	$u^{56} - u^{55} + \dots + 211173u - 7921$
c_8	$u^{56} + 10u^{55} + \dots + 155830u + 215404$
<i>c</i> ₉	$u^{56} + 16u^{55} + \dots + 815u + 53$
c_{11}	$u^{56} - 23u^{55} + \dots + 43u + 1$
c_{12}	$u^{56} - 9u^{55} + \dots - 735411u - 85511$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{56} - 201y^{55} + \dots - 18994y + 1$
c_2, c_5	$y^{56} - 81y^{55} + \dots + 82y + 1$
c_3,c_{10}	$y^{56} + 23y^{55} + \dots - 43y + 1$
<i>C</i> ₄	$y^{56} - 97y^{55} + \dots + 134121594y + 1042441$
<i>C</i> ₆	$y^{56} + 14y^{55} + \dots + 197216y + 16129$
<i>C</i> ₇	$y^{56} - 59y^{55} + \dots + 2248587717y + 62742241$
c ₈	$y^{56} - 106y^{55} + \dots - 2285891007612y + 46398883216$
<i>c</i> ₉	$y^{56} + 12y^{55} + \dots - 7449y + 2809$
c_{11}	$y^{56} + 27y^{55} + \dots - 3871y + 1$
c_{12}	$y^{56} - 45y^{55} + \dots - 1207444021181y + 7312131121$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.692976 + 0.741456I		
a = 0.83415 - 2.68568I	-13.01880 - 0.11658I	-13.39749 + 0.26224I
b = 2.82225 - 1.87057I		
u = 0.692976 - 0.741456I		
a = 0.83415 + 2.68568I	-13.01880 + 0.11658I	-13.39749 - 0.26224I
b = 2.82225 + 1.87057I		
u = -0.888534 + 0.493154I		
a = 0.787487 + 0.456037I	-4.23499 - 0.34965I	-13.31370 + 0.I
b = 0.828874 + 0.814475I		
u = -0.888534 - 0.493154I		
a = 0.787487 - 0.456037I	-4.23499 + 0.34965I	-13.31370 + 0.I
b = 0.828874 - 0.814475I		
u = -0.633685 + 0.804537I		
a = 2.26499 + 1.02925I	-2.67621 + 0.18944I	-11.22703 - 1.60949I
b = 1.64637 - 1.29628I		
u = -0.633685 - 0.804537I		
a = 2.26499 - 1.02925I	-2.67621 - 0.18944I	-11.22703 + 1.60949I
b = 1.64637 + 1.29628I		
u = -0.633438 + 0.738930I		
a = 1.67728 - 0.91484I	-12.20520 + 0.71501I	-16.2418 + 1.0323I
b = 1.368790 + 0.135930I		
u = -0.633438 - 0.738930I		
a = 1.67728 + 0.91484I	-12.20520 - 0.71501I	-16.2418 - 1.0323I
b = 1.368790 - 0.135930I		
u = 0.858766 + 0.568486I		
a = 1.39718 - 0.43816I	-4.83444 + 3.81788I	-12.17523 - 2.36589I
b = 1.51683 + 0.16349I		
u = 0.858766 - 0.568486I		
a = 1.39718 + 0.43816I	-4.83444 - 3.81788I	-12.17523 + 2.36589I
b = 1.51683 - 0.16349I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.636578 + 0.817575I		
a = -0.793907 + 0.325846I	-3.51130 - 0.72418I	-12.99804 - 0.44886I
b = -0.824038 + 0.535982I		
u = 0.636578 - 0.817575I		
a = -0.793907 - 0.325846I	-3.51130 + 0.72418I	-12.99804 + 0.44886I
b = -0.824038 - 0.535982I		
u = 0.104993 + 1.060980I		
a = 0.053924 + 0.614830I	3.62265 + 0.91650I	-60.912924 + 0.10I
b = 0.345359 - 0.952663I		
u = 0.104993 - 1.060980I		
a = 0.053924 - 0.614830I	3.62265 - 0.91650I	-60.912924 + 0.10I
b = 0.345359 + 0.952663I		
u = -0.047680 + 0.929101I		
a = 2.35142 - 0.07585I	-8.23805 + 0.54981I	-5.62601 + 0.13195I
b = -0.959476 + 0.938322I		
u = -0.047680 - 0.929101I		
a = 2.35142 + 0.07585I	-8.23805 - 0.54981I	-5.62601 - 0.13195I
b = -0.959476 - 0.938322I		
u = 0.639057 + 0.870621I		
a = 1.25596 - 0.86121I	-3.35127 - 4.26074I	-12.1347 + 7.9623I
b = 0.544969 + 0.721077I		
u = 0.639057 - 0.870621I		
a = 1.25596 + 0.86121I	-3.35127 + 4.26074I	-12.1347 - 7.9623I
b = 0.544969 - 0.721077I		
u = -0.622311 + 0.676205I		
a = -1.52391 + 0.07731I	-1.41377 + 1.41882I	-7.66827 - 2.37637I
b = -0.701853 + 0.906118I		
u = -0.622311 - 0.676205I		
a = -1.52391 - 0.07731I	-1.41377 - 1.41882I	-7.66827 + 2.37637I
b = -0.701853 - 0.906118I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 1.002470 + 0.434054I		
a = -0.995062 - 0.161033I	-14.5702 - 3.5038I	-12.90961 + 3.29634I
b = -1.65678 - 0.10063I		
u = 1.002470 - 0.434054I		
a = -0.995062 + 0.161033I	-14.5702 + 3.5038I	-12.90961 - 3.29634I
b = -1.65678 + 0.10063I		
u = -0.934670 + 0.567956I		
a = -1.31747 - 1.19240I	-15.5375 - 8.7539I	-11.13073 + 3.10208I
b = -1.95969 - 1.15142I		
u = -0.934670 - 0.567956I		
a = -1.31747 + 1.19240I	-15.5375 + 8.7539I	-11.13073 - 3.10208I
b = -1.95969 + 1.15142I		
u = -0.631753 + 0.901368I		
a = -1.02898 - 1.61492I	-2.37070 + 4.76407I	-10.20100 - 5.68692I
b = -2.09741 - 0.75187I		
u = -0.631753 - 0.901368I		
a = -1.02898 + 1.61492I	-2.37070 - 4.76407I	-10.20100 + 5.68692I
b = -2.09741 + 0.75187I		
u = -0.204920 + 1.113530I		
a = 0.265324 + 0.432938I	2.10184 + 2.44163I	-6.00000 - 6.66179I
b = 0.0303195 + 0.0315283I		
u = -0.204920 - 1.113530I		
a = 0.265324 - 0.432938I	2.10184 - 2.44163I	-6.00000 + 6.66179I
b = 0.0303195 - 0.0315283I		
u = -0.637975 + 0.945501I		
a = -0.49971 - 2.41919I	-11.56320 + 4.27962I	0
b = -1.051990 + 0.178832I		
u = -0.637975 - 0.945501I		
a = -0.49971 + 2.41919I	-11.56320 - 4.27962I	0
b = -1.051990 - 0.178832I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.628401 + 0.578258I		
a = -1.49132 + 0.91673I	-0.88901 + 2.15046I	-6.68954 - 4.21266I
b = -0.663752 + 0.368778I		
u = 0.628401 - 0.578258I		
a = -1.49132 - 0.91673I	-0.88901 - 2.15046I	-6.68954 + 4.21266I
b = -0.663752 - 0.368778I		
u = -0.617638 + 0.982030I		
a = 0.453503 + 0.970711I	-0.48219 + 3.48780I	0
b = 1.147700 + 0.399179I		
u = -0.617638 - 0.982030I		
a = 0.453503 - 0.970711I	-0.48219 - 3.48780I	0
b = 1.147700 - 0.399179I		
u = 0.674791 + 0.947519I		
a = -2.87088 + 0.86323I	-12.39390 - 5.16219I	0
b = -2.20281 - 2.50210I		
u = 0.674791 - 0.947519I		
a = -2.87088 - 0.86323I	-12.39390 + 5.16219I	0
b = -2.20281 + 2.50210I		
u = -0.205795 + 0.791172I		
a = -0.622285 - 0.611724I	0.118397 - 0.860000I	-3.74291 + 1.06399I
b = -1.082330 - 0.398478I		
u = -0.205795 - 0.791172I		
a = -0.622285 + 0.611724I	0.118397 + 0.860000I	-3.74291 - 1.06399I
b = -1.082330 + 0.398478I		
u = 0.622297 + 1.014000I		
a = 1.75434 - 0.58914I	0.37205 - 7.12007I	0
b = 0.968744 + 0.647144I		
u = 0.622297 - 1.014000I		
a = 1.75434 + 0.58914I	0.37205 + 7.12007I	0
b = 0.968744 - 0.647144I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.693949 + 1.070290I		
a = -0.98029 + 1.20357I	-3.32079 - 9.58196I	0
b = -1.74189 - 0.24768I		
u = 0.693949 - 1.070290I		
a = -0.98029 - 1.20357I	-3.32079 + 9.58196I	0
b = -1.74189 + 0.24768I		
u = -0.137699 + 1.273350I		
a = 0.353439 + 0.379773I	2.02092 + 2.34731I	0
b = -0.460194 - 0.278269I		
u = -0.137699 - 1.273350I		
a = 0.353439 - 0.379773I	2.02092 - 2.34731I	0
b = -0.460194 + 0.278269I		
u = 0.105350 + 1.287810I		
a = -0.735406 - 0.340219I	-8.24037 - 6.79326I	0
b = 1.31301 + 0.75117I		
u = 0.105350 - 1.287810I		
a = -0.735406 + 0.340219I	-8.24037 + 6.79326I	0
b = 1.31301 - 0.75117I		
u = -0.684933 + 1.102170I		
a = -1.35653 - 0.57109I	-2.41411 + 6.13994I	0
b = -0.746484 + 1.007420I		
u = -0.684933 - 1.102170I		
a = -1.35653 + 0.57109I	-2.41411 - 6.13994I	0
b = -0.746484 - 1.007420I		
u = -0.720000 + 1.106020I		
a = 1.91793 + 1.16363I	-13.8786 + 14.8239I	0
b = 1.89543 - 1.46698I		
u = -0.720000 - 1.106020I		
a = 1.91793 - 1.16363I	-13.8786 - 14.8239I	0
b = 1.89543 + 1.46698I		

Solutions to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.705581 + 1.210660I		
a = 0.274806 - 1.197140I	-12.19060 - 2.71913I	0
b = 1.40944 + 0.27613I		
u = 0.705581 - 1.210660I		
a = 0.274806 + 1.197140I	-12.19060 + 2.71913I	0
b = 1.40944 - 0.27613I		
u = 0.001183 + 0.423530I		
a = -2.64102 + 1.15828I	-0.61644 + 1.72204I	-1.75056 - 4.93921I
b = 0.087714 + 0.372288I		
u = 0.001183 - 0.423530I		
a = -2.64102 - 1.15828I	-0.61644 - 1.72204I	-1.75056 + 4.93921I
b = 0.087714 - 0.372288I		
u = -0.403232		
a = -0.866892	-0.901459	-10.8820
b = -0.486409		
u = -0.127485		
a = -7.70303	-11.0448	-6.10820
b = 1.93220		

$$\text{II. } I_2^u = \langle -u^{18} - 5u^{16} + \dots + b - 1, \ -39u^{19} - 13u^{18} + \dots + 46a - 113, \ u^{20} + 5u^{18} + \dots + 3u + 1 \rangle$$

(i) Arc colorings

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-\frac{83}{23}u^{19} + \frac{3}{23}u^{18} + \dots \frac{47}{23}u \frac{303}{23}$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{20} - 22u^{19} + \dots + 4u + 1$
c_2	$u^{20} + 2u^{19} + \dots - 2u + 1$
<i>c</i> ₃	$u^{20} + 5u^{18} + \dots + 3u + 1$
c_4	$u^{20} + 2u^{19} + \dots - 6u + 1$
<i>C</i> ₅	$u^{20} - 2u^{19} + \dots + 2u + 1$
c_6	$u^{20} - u^{19} + \dots - 4u + 1$
c_7	$u^{20} - 6u^{18} + \dots + 3u + 1$
c_8	$u^{20} + 17u^{19} + \dots + 50u + 4$
c_9	$u^{20} - 3u^{19} + \dots - u + 1$
c_{10}	$u^{20} + 5u^{18} + \dots - 3u + 1$
c_{11}	$u^{20} - 10u^{19} + \dots + u + 1$
c_{12}	$u^{20} - 4u^{19} + \dots - u + 1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1	$y^{20} - 38y^{19} + \dots + 52y + 1$
c_2, c_5	$y^{20} - 22y^{19} + \dots + 4y + 1$
c_3,c_{10}	$y^{20} + 10y^{19} + \dots - y + 1$
C4	$y^{20} - 14y^{19} + \dots + 16y + 1$
<i>C</i> ₆	$y^{20} + y^{19} + \dots - 6y + 1$
C ₇	$y^{20} - 12y^{19} + \dots - 13y + 1$
<i>c</i> ₈	$y^{20} - 19y^{19} + \dots + 116y + 16$
c_9	$y^{20} - 5y^{19} + \dots - 3y + 1$
c_{11}	$y^{20} + 6y^{19} + \dots - y + 1$
c_{12}	$y^{20} - 6y^{19} + \dots + y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.772905 + 0.572344I		
a = -0.933396 + 0.819549I	-2.53009 + 3.40174I	-9.63788 - 3.26819I
b = -0.558966 + 0.337682I		
u = 0.772905 - 0.572344I		
a = -0.933396 - 0.819549I	-2.53009 - 3.40174I	-9.63788 + 3.26819I
b = -0.558966 - 0.337682I		
u = -0.682482 + 0.838468I		
a = -0.785516 + 0.464945I	-2.91107 + 2.63432I	-11.73829 - 3.12601I
b = 0.280995 + 1.364070I		
u = -0.682482 - 0.838468I		
a = -0.785516 - 0.464945I	-2.91107 - 2.63432I	-11.73829 + 3.12601I
b = 0.280995 - 1.364070I		
u = 0.543169 + 0.723200I		
a = -1.49908 - 0.05473I	-11.45610 - 1.22236I	-7.56344 + 4.92814I
b = -1.86935 + 0.36653I		
u = 0.543169 - 0.723200I		
a = -1.49908 + 0.05473I	-11.45610 + 1.22236I	-7.56344 - 4.92814I
b = -1.86935 - 0.36653I		
u = 0.027604 + 1.145960I		
a = 0.355295 + 0.352119I	3.09023 + 2.06934I	-1.83260 - 4.32383I
b = 0.039743 - 0.812092I		
u = 0.027604 - 1.145960I		
a = 0.355295 - 0.352119I	3.09023 - 2.06934I	-1.83260 + 4.32383I
b = 0.039743 + 0.812092I		
u = -0.526421 + 0.638893I		
a = 2.08640 + 0.90796I	-1.43115 - 0.91050I	-9.59211 + 0.13114I
b = 1.255500 - 0.036319I		
u = -0.526421 - 0.638893I		
a = 2.08640 - 0.90796I	-1.43115 + 0.91050I	-9.59211 - 0.13114I
b = 1.255500 + 0.036319I		

Solutions to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
u = 0.576682 + 1.026770I		
a = 0.29109 - 1.79167I	-10.43120 - 3.28196I	-7.53074 + 2.63481I
b = 1.38675 + 0.49499I		
u = 0.576682 - 1.026770I		
a = 0.29109 + 1.79167I	-10.43120 + 3.28196I	-7.53074 - 2.63481I
b = 1.38675 - 0.49499I		
u = -0.592965 + 1.023500I		
a = -1.51004 - 1.14114I	-0.16184 + 5.53204I	-6.48670 - 5.34088I
b = -1.28416 + 0.60245I		
u = -0.592965 - 1.023500I		
a = -1.51004 + 1.14114I	-0.16184 - 5.53204I	-6.48670 + 5.34088I
b = -1.28416 - 0.60245I		
u = 0.665803 + 1.049490I		
a = 1.347780 - 0.248069I	-1.11207 - 8.86087I	-7.07964 + 7.75800I
b = 0.788455 + 0.595065I		
u = 0.665803 - 1.049490I		
a = 1.347780 + 0.248069I	-1.11207 + 8.86087I	-7.07964 - 7.75800I
b = 0.788455 - 0.595065I		
u = -0.308242 + 1.258580I		
a = 0.342355 + 0.291715I	2.09543 + 1.81889I	-7.16687 + 6.15815I
b = -0.437264 - 0.521691I		
u = -0.308242 - 1.258580I		
a = 0.342355 - 0.291715I	2.09543 - 1.81889I	-7.16687 - 6.15815I
b = -0.437264 + 0.521691I		
u = -0.476054 + 0.151252I		
a = 0.30510 + 1.45204I	-1.47105 + 1.58070I	-12.37174 - 3.24876I
b = 0.398299 - 0.057590I		
u = -0.476054 - 0.151252I		
a = 0.30510 - 1.45204I	-1.47105 - 1.58070I	-12.37174 + 3.24876I
b = 0.398299 + 0.057590I		

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{20} - 22u^{19} + \dots + 4u + 1)(u^{56} + 81u^{55} + \dots - 82u + 1)$
c_2	$(u^{20} + 2u^{19} + \dots - 2u + 1)(u^{56} + 3u^{55} + \dots + 20u - 1)$
<i>c</i> ₃	$(u^{20} + 5u^{18} + \dots + 3u + 1)(u^{56} + u^{55} + \dots + 11u + 1)$
<i>C</i> ₄	$(u^{20} + 2u^{19} + \dots - 6u + 1)(u^{56} - u^{55} + \dots - 5248u - 1021)$
<i>C</i> ₅	$(u^{20} - 2u^{19} + \dots + 2u + 1)(u^{56} + 3u^{55} + \dots + 20u - 1)$
<i>c</i> ₆	$(u^{20} - u^{19} + \dots - 4u + 1)(u^{56} - 2u^{55} + \dots + 74u + 127)$
C ₇	$(u^{20} - 6u^{18} + \dots + 3u + 1)(u^{56} - u^{55} + \dots + 211173u - 7921)$
<i>c</i> ₈	$(u^{20} + 17u^{19} + \dots + 50u + 4)(u^{56} + 10u^{55} + \dots + 155830u + 215404)$
<i>C</i> 9	$(u^{20} - 3u^{19} + \dots - u + 1)(u^{56} + 16u^{55} + \dots + 815u + 53)$
c_{10}	$(u^{20} + 5u^{18} + \dots - 3u + 1)(u^{56} + u^{55} + \dots + 11u + 1)$
c_{11}	$(u^{20} - 10u^{19} + \dots + u + 1)(u^{56} - 23u^{55} + \dots + 43u + 1)$
c_{12}	$(u^{20} - 4u^{19} + \dots - u + 1)(u^{56} - 9u^{55} + \dots - 735411u - 85511)$ 18

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1	$(y^{20} - 38y^{19} + \dots + 52y + 1)(y^{56} - 201y^{55} + \dots - 18994y + 1)$
c_2,c_5	$(y^{20} - 22y^{19} + \dots + 4y + 1)(y^{56} - 81y^{55} + \dots + 82y + 1)$
c_3, c_{10}	$(y^{20} + 10y^{19} + \dots - y + 1)(y^{56} + 23y^{55} + \dots - 43y + 1)$
c_4	$(y^{20} - 14y^{19} + \dots + 16y + 1)$ $\cdot (y^{56} - 97y^{55} + \dots + 134121594y + 1042441)$
c_6	$(y^{20} + y^{19} + \dots - 6y + 1)(y^{56} + 14y^{55} + \dots + 197216y + 16129)$
c_7	$(y^{20} - 12y^{19} + \dots - 13y + 1)$ $\cdot (y^{56} - 59y^{55} + \dots + 2248587717y + 62742241)$
<i>c</i> ₈	$(y^{20} - 19y^{19} + \dots + 116y + 16)$ $\cdot (y^{56} - 106y^{55} + \dots - 2285891007612y + 46398883216)$
<i>c</i> ₉	$(y^{20} - 5y^{19} + \dots - 3y + 1)(y^{56} + 12y^{55} + \dots - 7449y + 2809)$
c_{11}	$(y^{20} + 6y^{19} + \dots - y + 1)(y^{56} + 27y^{55} + \dots - 3871y + 1)$
c_{12}	$(y^{20} - 6y^{19} + \dots + y + 1)$ $\cdot (y^{56} - 45y^{55} + \dots - 1207444021181y + 7312131121)$