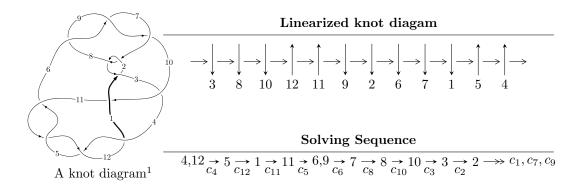
$12a_{0772} \ (K12a_{0772})$



Ideals for irreducible components² of X_{par}

$$I_1^u = \langle u^{67} + 2u^{66} + \dots + b + 1, \ u^{67} + 2u^{66} + \dots + a + 2, \ u^{68} + 2u^{67} + \dots + 6u + 1 \rangle$$

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

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 72 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.

$$I_1^u = \langle u^{67} + 2u^{66} + \dots + b + 1, \ u^{67} + 2u^{66} + \dots + a + 2, \ u^{68} + 2u^{67} + \dots + 6u + 1 \rangle$$

(i) Arc colorings

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

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

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

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

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

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

$$a_{9} = \begin{pmatrix} -u^{67} - 2u^{66} + \dots - 6u - 2 \\ -u^{67} - 2u^{66} + \dots - 4u - 1 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} u^{67} + u^{66} + \dots + 2u + 2 \\ -u^{41} - 23u^{39} + \dots - 2u^{2} - u \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{67} - 3u^{66} + \dots - 8u - 3 \\ -2u^{67} - 4u^{66} + \dots - 10u - 2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^{5} + 2u^{3} - u \\ u^{5} + 3u^{3} + u \end{pmatrix}$$

$$a_{3} = \begin{pmatrix} -u^{10} - 5u^{8} - 6u^{6} + u^{4} + u^{2} + 1 \\ -u^{10} - 6u^{8} - 11u^{6} - 6u^{4} - u^{2} \end{pmatrix}$$

$$a_{2} = \begin{pmatrix} u^{19} + 10u^{17} + 38u^{15} + 66u^{13} + 47u^{11} + 4u^{9} - 8u^{7} - 10u^{5} - 3u^{3} \\ u^{19} + 11u^{17} + 48u^{15} + 105u^{13} + 121u^{11} + 75u^{9} + 30u^{7} + 8u^{5} + u^{3} + u \end{pmatrix}$$

- (ii) Obstruction class = -1
- (iii) Cusp Shapes = $u^{67} + 2u^{66} + \cdots u 9$

(iv) u-Polynomials at the component

| Crossings | u-Polynomials at each crossing |
|-----------------------------|---|
| c_1 | $u^{68} + 27u^{67} + \dots + 1344u + 256$ |
| c_2, c_7 | $u^{68} + u^{67} + \dots - 40u - 16$ |
| c_3 | $u^{68} + 2u^{67} + \dots + 5322u + 1049$ |
| c_4, c_5, c_{11} c_{12} | $u^{68} + 2u^{67} + \dots + 6u + 1$ |
| c_6, c_8, c_9 | $u^{68} - 5u^{67} + \dots + 6u - 1$ |
| c_{10} | $u^{68} - 18u^{67} + \dots - 1008u + 49$ |

(v) Riley Polynomials at the component

| Crossings | Riley Polynomials at each crossing |
|-----------------------------|---|
| c_1 | $y^{68} + 21y^{67} + \dots - 1232896y + 65536$ |
| c_2, c_7 | $y^{68} - 27y^{67} + \dots - 1344y + 256$ |
| <i>c</i> ₃ | $y^{68} - 18y^{67} + \dots - 32379118y + 1100401$ |
| c_4, c_5, c_{11} c_{12} | $y^{68} + 78y^{67} + \dots - 6y + 1$ |
| c_6, c_8, c_9 | $y^{68} - 59y^{67} + \dots - 12y + 1$ |
| c_{10} | $y^{68} - 6y^{67} + \dots - 75166y + 2401$ |

(vi) Complex Volumes and Cusp Shapes

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|---------------------|
| u = -0.197347 + 0.873475I | | |
| a = -1.89430 + 0.94588I | -6.76573 + 5.38396I | -12.62780 + 0.I |
| b = -1.68578 - 0.87347I | | |
| u = -0.197347 - 0.873475I | | |
| a = -1.89430 - 0.94588I | -6.76573 - 5.38396I | -12.62780 + 0.I |
| b = -1.68578 + 0.87347I | | |
| u = -0.400919 + 0.776860I | | |
| a = -1.74029 + 2.14685I | -10.07420 - 3.27035I | -14.2388 + 4.5595I |
| b = -2.54116 - 0.78686I | | |
| u = -0.400919 - 0.776860I | | |
| a = -1.74029 - 2.14685I | -10.07420 + 3.27035I | -14.2388 - 4.5595I |
| b = -2.54116 + 0.78686I | | |
| u = -0.516725 + 0.700827I | | |
| a = -0.69973 + 2.63609I | -4.70584 - 11.85590I | -9.20800 + 9.67141I |
| b = -2.80366 - 0.05209I | | |
| u = -0.516725 - 0.700827I | | |
| a = -0.69973 - 2.63609I | -4.70584 + 11.85590I | -9.20800 - 9.67141I |
| b = -2.80366 + 0.05209I | | |
| u = -0.495876 + 0.679831I | | |
| a = 0.682404 - 0.604436I | 0.39345 - 7.62900I | -5.28637 + 9.02700I |
| b = 1.120320 + 0.179470I | | |
| u = -0.495876 - 0.679831I | | |
| a = 0.682404 + 0.604436I | 0.39345 + 7.62900I | -5.28637 - 9.02700I |
| b = 1.120320 - 0.179470I | | |
| u = 0.474084 + 0.680555I | | |
| a = 0.96634 + 3.09061I | -2.72085 + 5.66166I | -8.20435 - 6.61637I |
| b = 3.15400 - 0.19444I | | |
| u = 0.474084 - 0.680555I | | |
| a = 0.96634 - 3.09061I | -2.72085 - 5.66166I | -8.20435 + 6.61637I |
| b = 3.15400 + 0.19444I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|----------------------|
| u = -0.450615 + 0.661293I | | |
| a = 0.423151 - 0.930817I | -1.99409 - 3.06832I | -9.13804 + 6.00596I |
| b = 0.078954 + 0.208633I | | |
| u = -0.450615 - 0.661293I | | |
| a = 0.423151 + 0.930817I | -1.99409 + 3.06832I | -9.13804 - 6.00596I |
| b = 0.078954 - 0.208633I | | |
| u = 0.481088 + 0.620510I | | |
| a = -0.751512 - 0.690976I | 1.64508 + 2.45629I | -1.94498 - 3.97918I |
| b = -1.050000 + 0.375121I | | |
| u = 0.481088 - 0.620510I | | |
| a = -0.751512 + 0.690976I | 1.64508 - 2.45629I | -1.94498 + 3.97918I |
| b = -1.050000 - 0.375121I | | |
| u = -0.170138 + 0.764448I | | |
| a = 0.198071 - 0.774648I | -1.56053 + 1.82446I | -9.18170 - 2.54653I |
| b = 0.091517 + 0.187313I | | |
| u = -0.170138 - 0.764448I | | |
| a = 0.198071 + 0.774648I | -1.56053 - 1.82446I | -9.18170 + 2.54653I |
| b = 0.091517 - 0.187313I | | |
| u = 0.532445 + 0.564325I | | |
| a = -0.388234 - 1.011420I | -2.03493 - 0.49893I | -8.07852 - 0.03154I |
| b = 0.050264 + 0.201909I | | |
| u = 0.532445 - 0.564325I | | |
| a = -0.388234 + 1.011420I | -2.03493 + 0.49893I | -8.07852 + 0.03154I |
| b = 0.050264 - 0.201909I | | |
| u = 0.243977 + 0.727217I | | |
| a = 2.80371 + 1.23958I | -4.18607 - 0.03385I | -11.57789 - 1.81848I |
| b = 1.88635 - 1.53609I | | |
| u = 0.243977 - 0.727217I | | |
| a = 2.80371 - 1.23958I | -4.18607 + 0.03385I | -11.57789 + 1.81848I |
| b = 1.88635 + 1.53609I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|----------------------|
| u = -0.311198 + 0.686872I | | |
| a = 0.980284 - 0.595708I | -2.94398 - 2.12230I | -12.85059 + 5.39939I |
| b = 0.701988 - 0.150651I | | |
| u = -0.311198 - 0.686872I | | |
| a = 0.980284 + 0.595708I | -2.94398 + 2.12230I | -12.85059 - 5.39939I |
| b = 0.701988 + 0.150651I | | |
| u = 0.563412 + 0.362435I | | |
| a = -0.247629 - 1.102900I | -1.44819 + 4.26469I | -5.83422 - 6.54784I |
| b = 0.277678 + 0.121770I | | |
| u = 0.563412 - 0.362435I | | |
| a = -0.247629 + 1.102900I | -1.44819 - 4.26469I | -5.83422 + 6.54784I |
| b = 0.277678 - 0.121770I | | |
| u = -0.606358 + 0.193080I | | |
| a = -1.39324 - 1.03510I | -3.21668 + 8.03552I | -5.98685 - 4.67899I |
| b = 2.26203 + 0.05493I | | |
| u = -0.606358 - 0.193080I | | |
| a = -1.39324 + 1.03510I | -3.21668 - 8.03552I | -5.98685 + 4.67899I |
| b = 2.26203 - 0.05493I | | |
| u = 0.330146 + 0.517285I | | |
| a = -0.660081 - 0.413783I | -0.032689 + 1.215400I | -0.57880 - 5.39464I |
| b = -0.217944 + 0.480205I | | |
| u = 0.330146 - 0.517285I | | |
| a = -0.660081 + 0.413783I | -0.032689 - 1.215400I | -0.57880 + 5.39464I |
| b = -0.217944 - 0.480205I | | |
| u = -0.561161 + 0.207787I | | |
| a = 0.337609 + 0.749165I | 1.76608 + 3.99561I | -1.44534 - 3.66904I |
| b = -0.707722 + 0.316264I | | |
| u = -0.561161 - 0.207787I | | |
| a = 0.337609 - 0.749165I | 1.76608 - 3.99561I | -1.44534 + 3.66904I |
| b = -0.707722 - 0.316264I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|---------------------|
| u = 0.518120 + 0.292169I | | |
| a = -0.539528 + 0.663157I | 2.59858 + 1.02255I | 0.98197 - 3.38285I |
| b = 0.669029 + 0.534018I | | |
| u = 0.518120 - 0.292169I | | |
| a = -0.539528 - 0.663157I | 2.59858 - 1.02255I | 0.98197 + 3.38285I |
| b = 0.669029 - 0.534018I | | |
| u = -0.576388 | | |
| a = -1.92938 | -7.75399 | -9.67190 |
| b = 2.19889 | | |
| u = 0.07796 + 1.43530I | | |
| a = -0.162067 + 1.034400I | -7.09488 + 6.44284I | 0 |
| b = -0.840024 + 0.237993I | | |
| u = 0.07796 - 1.43530I | | |
| a = -0.162067 - 1.034400I | -7.09488 - 6.44284I | 0 |
| b = -0.840024 - 0.237993I | | |
| u = 0.524636 + 0.189192I | | |
| a = 1.87813 - 1.35011I | -1.30607 - 2.19733I | -4.11257 + 1.04166I |
| b = -2.32094 - 0.02678I | | |
| u = 0.524636 - 0.189192I | | |
| a = 1.87813 + 1.35011I | -1.30607 + 2.19733I | -4.11257 - 1.04166I |
| b = -2.32094 + 0.02678I | | |
| u = 0.03050 + 1.44934I | | |
| a = 0.083282 - 1.286440I | -2.76626 + 2.66512I | 0 |
| b = -0.069756 - 0.938775I | | |
| u = 0.03050 - 1.44934I | | |
| a = 0.083282 + 1.286440I | -2.76626 - 2.66512I | 0 |
| b = -0.069756 + 0.938775I | | |
| u = -0.01471 + 1.47586I | | |
| a = 0.02141 + 1.58635I | -6.14370 - 1.26145I | 0 |
| b = 0.899720 + 0.769271I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|---------------------|
| u = -0.01471 - 1.47586I | | |
| a = 0.02141 - 1.58635I | -6.14370 + 1.26145I | 0 |
| b = 0.899720 - 0.769271I | | |
| u = -0.456710 + 0.227741I | | |
| a = 0.035275 - 1.215450I | -0.733539 - 0.161688I | -4.49004 - 0.59711I |
| b = -0.378539 - 0.029211I | | |
| u = -0.456710 - 0.227741I | | |
| a = 0.035275 + 1.215450I | -0.733539 + 0.161688I | -4.49004 + 0.59711I |
| b = -0.378539 + 0.029211I | | |
| u = 0.14519 + 1.54639I | | |
| a = 0.253403 + 0.483127I | -9.06713 + 1.92504I | 0 |
| b = -0.280463 - 0.206557I | | |
| u = 0.14519 - 1.54639I | | |
| a = 0.253403 - 0.483127I | -9.06713 - 1.92504I | 0 |
| b = -0.280463 + 0.206557I | | |
| u = 0.08880 + 1.56603I | | |
| a = 0.845921 - 0.221814I | -7.19692 + 2.68331I | 0 |
| b = 0.418511 - 0.710414I | | |
| u = 0.08880 - 1.56603I | | |
| a = 0.845921 + 0.221814I | -7.19692 - 2.68331I | 0 |
| b = 0.418511 + 0.710414I | | |
| u = 0.13443 + 1.57872I | | |
| a = 1.53855 + 0.40023I | -5.78611 + 4.68931I | 0 |
| b = 1.353120 - 0.222566I | | |
| u = 0.13443 - 1.57872I | | |
| a = 1.53855 - 0.40023I | -5.78611 - 4.68931I | 0 |
| b = 1.353120 + 0.222566I | | |
| u = -0.12937 + 1.59418I | | |
| a = -0.328067 + 0.224406I | -9.65837 - 5.20890I | 0 |
| b = 0.094922 - 0.452255I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|------------|
| u = -0.12937 - 1.59418I | | |
| a = -0.328067 - 0.224406I | -9.65837 + 5.20890I | 0 |
| b = 0.094922 + 0.452255I | | |
| u = -0.08976 + 1.60098I | | |
| a = -1.30221 + 0.61992I | -10.77820 - 3.62355I | 0 |
| b = -0.936662 + 0.307947I | | |
| u = -0.08976 - 1.60098I | | |
| a = -1.30221 - 0.61992I | -10.77820 + 3.62355I | 0 |
| b = -0.936662 - 0.307947I | | |
| u = -0.14415 + 1.59782I | | |
| a = -1.49950 + 0.50175I | -7.32065 - 10.00200I | 0 |
| b = -1.43108 - 0.02226I | | |
| u = -0.14415 - 1.59782I | | |
| a = -1.49950 - 0.50175I | -7.32065 + 10.00200I | 0 |
| b = -1.43108 + 0.02226I | | |
| u = 0.13700 + 1.59875I | | |
| a = -3.57982 - 2.12253I | -10.45510 + 7.92717I | 0 |
| b = -3.78928 + 0.27230I | | |
| u = 0.13700 - 1.59875I | | |
| a = -3.57982 + 2.12253I | -10.45510 - 7.92717I | 0 |
| b = -3.78928 - 0.27230I | | |
| u = -0.06158 + 1.60581I | | |
| a = -0.295079 - 0.181302I | -9.61163 + 0.87781I | 0 |
| b = -0.063867 - 0.737957I | | |
| u = -0.06158 - 1.60581I | | |
| a = -0.295079 + 0.181302I | -9.61163 - 0.87781I | 0 |
| b = -0.063867 + 0.737957I | | |
| u = 0.07627 + 1.60624I | | |
| a = -3.85696 + 1.01925I | -12.16480 + 1.21091I | 0 |
| b = -2.50796 + 2.49681I | | |

| Solutions to I_1^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|-------------------------|---------------------------------------|------------|
| u = 0.07627 - 1.60624I | | |
| a = -3.85696 - 1.01925I | -12.16480 - 1.21091I | 0 |
| b = -2.50796 - 2.49681I | | |
| u = -0.15212 + 1.60475I | | |
| a = 2.90531 - 1.99256I | -12.5124 - 14.3522I | 0 |
| b = 3.25598 + 0.08173I | | |
| u = -0.15212 - 1.60475I | | |
| a = 2.90531 + 1.99256I | -12.5124 + 14.3522I | 0 |
| b = 3.25598 - 0.08173I | | |
| u = -0.11057 + 1.62515I | | |
| a = 3.52667 - 0.54454I | -18.2927 - 5.1877I | 0 |
| b = 3.06754 + 1.31578I | | |
| u = -0.11057 - 1.62515I | | |
| a = 3.52667 + 0.54454I | -18.2927 + 5.1877I | 0 |
| b = 3.06754 - 1.31578I | | |
| u = -0.05163 + 1.62908I | | |
| a = 2.77109 + 0.87233I | -15.2957 + 4.4711I | 0 |
| b = 1.87630 + 1.80364I | | |
| u = -0.05163 - 1.62908I | | |
| a = 2.77109 - 0.87233I | -15.2957 - 4.4711I | 0 |
| b = 1.87630 - 1.80364I | | |
| u = -0.297877 | | |
| a = -0.895338 | -1.07159 | -8.30070 |
| b = -0.465644 | | |

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

(i) Arc colorings

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

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

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

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

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

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

$$a_{9} = \begin{pmatrix} -u^{3} - 2u \\ 0 \end{pmatrix}$$

$$a_{7} = \begin{pmatrix} -u^{3} + u^{2} - 2u + 1 \\ -u^{3} + u^{2} - 2u + 1 \end{pmatrix}$$

$$a_{8} = \begin{pmatrix} -u^{3} + u^{2} - 2u + 1 \\ -u^{3} + u^{2} - 2u + 1 \end{pmatrix}$$

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

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

$$a_{2} = \begin{pmatrix} u \\ u \end{pmatrix}$$

- (ii) Obstruction class = 1
- (iii) Cusp Shapes = $-3u^3 + 3u^2 10u 4$

(iv) u-Polynomials at the component

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

(v) Riley Polynomials at the component

| Crossings | Riley Polynomials at each crossing |
|-----------------------------|------------------------------------|
| c_1, c_2, c_7 | y^4 |
| c_3, c_{10} | $y^4 + y^3 + 3y^2 + 2y + 1$ |
| c_4, c_5, c_{11} c_{12} | $y^4 + 5y^3 + 7y^2 + 2y + 1$ |
| c_6, c_8, c_9 | $(y-1)^4$ |

(vi) Complex Volumes and Cusp Shapes

| Solutions to I_2^u | $\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$ | Cusp shape |
|---------------------------|---------------------------------------|---------------------|
| u = 0.395123 + 0.506844I | | |
| a = -0.547424 - 1.120870I | -1.43393 + 1.41510I | -7.52507 - 4.18840I |
| b = 0 | | |
| u = 0.395123 - 0.506844I | | |
| a = -0.547424 + 1.120870I | -1.43393 - 1.41510I | -7.52507 + 4.18840I |
| b = 0 | | |
| u = 0.10488 + 1.55249I | | |
| a = 0.547424 + 0.585652I | -8.43568 + 3.16396I | -9.97493 - 3.47609I |
| b = 0 | | |
| u = 0.10488 - 1.55249I | | |
| a = 0.547424 - 0.585652I | -8.43568 - 3.16396I | -9.97493 + 3.47609I |
| b = 0 | | |

III. u-Polynomials

| Crossings | u-Polynomials at each crossing |
|------------------|--|
| c_1 | $u^4(u^{68} + 27u^{67} + \dots + 1344u + 256)$ |
| c_2, c_7 | $u^4(u^{68} + u^{67} + \dots - 40u - 16)$ |
| c_3 | $(u^4 - u^3 + u^2 + 1)(u^{68} + 2u^{67} + \dots + 5322u + 1049)$ |
| c_4,c_5 | $(u^4 - u^3 + 3u^2 - 2u + 1)(u^{68} + 2u^{67} + \dots + 6u + 1)$ |
| c_6 | $((u-1)^4)(u^{68} - 5u^{67} + \dots + 6u - 1)$ |
| c_8, c_9 | $((u+1)^4)(u^{68} - 5u^{67} + \dots + 6u - 1)$ |
| c_{10} | $(u^4 + u^3 + u^2 + 1)(u^{68} - 18u^{67} + \dots - 1008u + 49)$ |
| c_{11}, c_{12} | $(u^4 + u^3 + 3u^2 + 2u + 1)(u^{68} + 2u^{67} + \dots + 6u + 1)$ |

IV. Riley Polynomials

| Crossings | Riley Polynomials at each crossing |
|-----------------------------|--|
| c_1 | $y^4(y^{68} + 21y^{67} + \dots - 1232896y + 65536)$ |
| c_2, c_7 | $y^4(y^{68} - 27y^{67} + \dots - 1344y + 256)$ |
| c_3 | $(y^4 + y^3 + 3y^2 + 2y + 1)(y^{68} - 18y^{67} + \dots - 3.23791 \times 10^7 y + 1100401)$ |
| c_4, c_5, c_{11} c_{12} | $(y^4 + 5y^3 + 7y^2 + 2y + 1)(y^{68} + 78y^{67} + \dots - 6y + 1)$ |
| c_6, c_8, c_9 | $((y-1)^4)(y^{68} - 59y^{67} + \dots - 12y + 1)$ |
| c_{10} | $(y^4 + y^3 + 3y^2 + 2y + 1)(y^{68} - 6y^{67} + \dots - 75166y + 2401)$ |