List of superpotentials of toric phases

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1 Superpotentials of toric phases of polytopes with 2 internal points

[1]

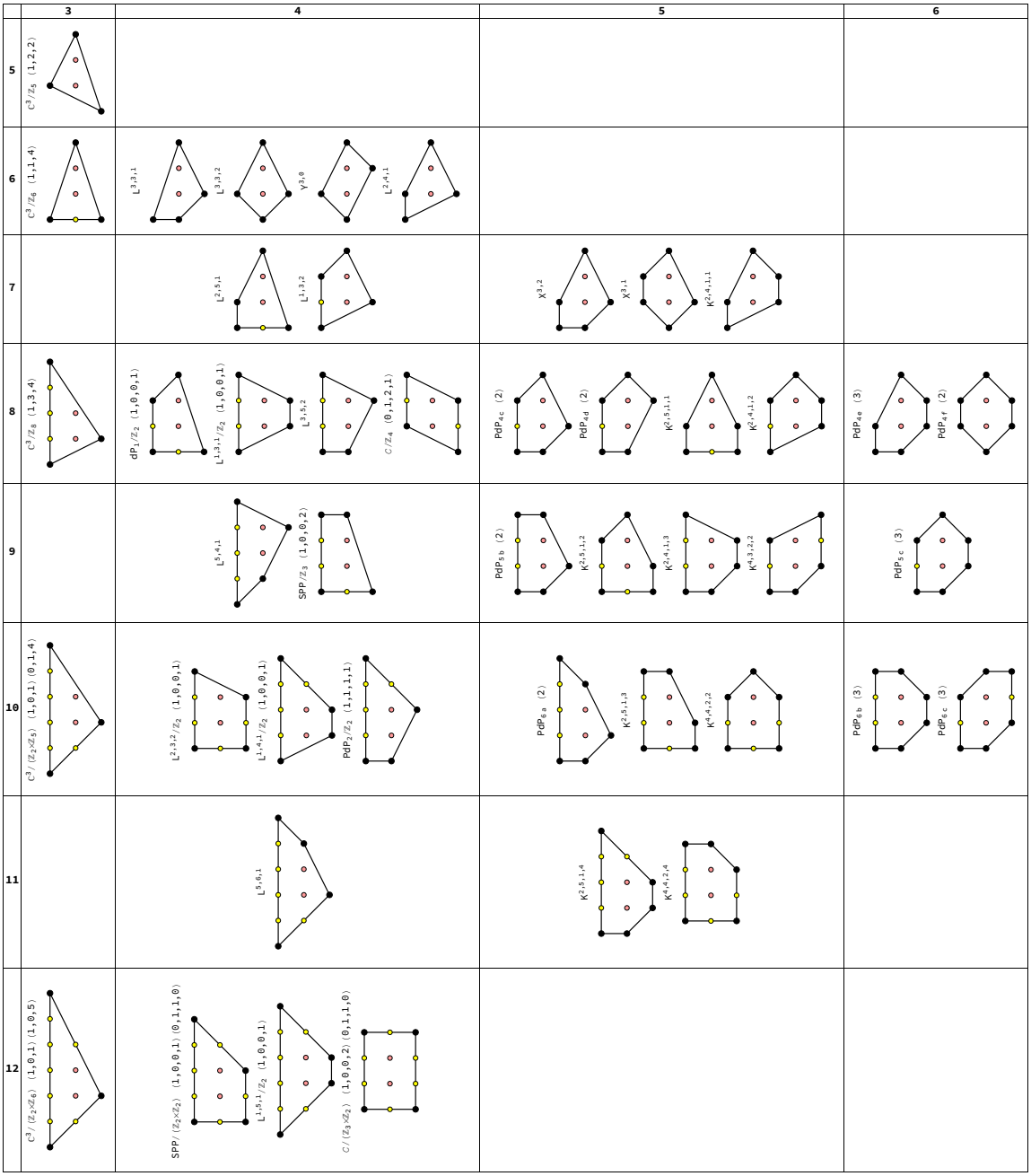

Figure 1: Hi

1.1 $\mathbb{C}^3/\mathbb{Z}_5\ (1,2,2)$

(I) $-X_{14}X^1_{45}X^2_{51}+X_{14}X^2_{45}X^1_{51}-X_{25}X^1_{51}X^2_{12}+X^1_{12}X_{25}X^2_{51}-X^1_{12}X^2_{23}X_{31}+X^1_{23}X_{31}X^2_{12}-X^1_{23}X^2_{34}X_{42}+X^1_{34}X_{42}X^2_{23}-X^1_{34}X^2_{45}X_{53}+X^1_{45}X_{53}X^2_{34}$

1.2 $\mathbb{C}^3/\mathbb{Z}_6\ (1,1,4)$

(I) $X_{15}X^1_{56}X^2_{61}-X_{15}X^2_{56}X^1_{61}+X_{26}X^1_{61}X^2_{12}-X^1_{12}X_{26}X^2_{61}+X^1_{12}X^2_{23}X_{31}-X^1_{23}X_{31}X^2_{12}+X^1_{23}X^2_{34}X_{42}-X^1_{34}X_{42}X^2_{23}+X^1_{34}X^2_{45}X_{53}-X^1_{45}X_{53}X^2_{34}+X^1_{45}X^2_{56}X_{64}-X^1_{56}X_{64}X^2_{45}$

1.3 $L^{3,3,1}$

(I) $X_{15}X^1_{56}X^2_{61}-X_{15}X^2_{56}X^1_{61}+X_{26}X^1_{61}X^2_{12}-X^1_{12}X_{26}X^2_{61}+X^1_{34}X^2_{45}X_{53}-X^1_{45}X_{53}X^2_{34}+X^1_{45}X^2_{56}X_{64}-X^1_{56}X_{64}X^2_{45}-X_{23}X^1_{34}X_{41}X^2_{12}+X^1_{12}X_{23}X^2_{34}X_{41}$

1.4 $L^{3,3,2}$

(I) $X_{43}X^2_{35}X^2_{54}-X^1_{23}X^2_{35}X_{52}+X^1_{35}X_{52}X^2_{23}-X^1_{35}X^1_{54}X_{43}-X_{31}X^2_{16}X_{62}X^2_{23}+X_{41}X^2_{16}X_{65}X^1_{54}+X^1_{16}X_{62}X^1_{23}X_{31}-X^1_{16}X_{65}X^2_{54}X_{41}$

(II) $-X_{26}X^1_{61}X^2_{12}-X_{41}X^2_{15}X^2_{54}+X_{43}X^2_{35}X^2_{54}+X_{56}X^1_{61}X^2_{15}+X^1_{12}X_{26}X^2_{61}-X^1_{12}X^2_{23}X_{31}-X^1_{15}X_{56}X^2_{61}+X^1_{15}X^1_{54}X_{41}+X^1_{23}X_{31}X^2_{12}-X^1_{23}X^2_{35}X_{52}+X^1_{35}X_{52}X^2_{23}-X^1_{35}X^1_{54}X_{43}$

1.5 $Y^{3,0}$

(I) $-X_{23}X^1_{34}X_{41}X^2_{12}+X_{25}X^1_{56}X_{61}X^2_{12}-X_{45}X^1_{56}X_{63}X^2_{34}+X^1_{12}X_{23}X^2_{34}X_{41}-X^1_{12}X_{25}X^2_{56}X_{61}+X^1_{34}X_{45}X^2_{56}X_{63}$

(II) $-X_{14}X^1_{42}X^1_{21}+X_{14}X^2_{42}X^2_{21}+X_{16}X^1_{62}X^1_{21}-X_{16}X^2_{62}X^2_{21}-X_{23}X^1_{34}X^2_{42}+X_{23}X^2_{34}X^1_{42}+X_{25}X^1_{56}X^2_{62}-X_{25}X^2_{56}X^1_{62}-X_{45}X^1_{56}X_{63}X^2_{34}+X^1_{34}X_{45}X^2_{56}X_{63}$

1.6 $L^{2,4,1}$

(I) $-X_{15}X^1_{56}X^2_{61}+X_{15}X^2_{56}X^1_{61}+X_{24}X_{41}X^2_{12}-X_{26}X^1_{61}X^2_{12}-X_{35}X^2_{56}X_{63}+X^1_{12}X_{26}X^2_{61}+X_{34}X_{45}X^1_{56}X_{63}-X^1_{12}X_{23}X_{34}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}$

1.7 $L^{2,5,1}$

(I) $-X_{16}X_{67}X^1_{71}+X_{27}X^1_{71}X^2_{12}-X^1_{12}X_{27}X^2_{71}+X^1_{12}X^2_{23}X_{31}-X^1_{23}X_{31}X^2_{12}+X^1_{23}X^2_{34}X_{42}-X^1_{34}X_{42}X^2_{23}+X^1_{34}X_{45}X_{53}+X_{16}X_{65}X_{57}X^2_{71}-X_{46}X_{65}X_{53}X^2_{34}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}$

1.8 $L^{1,3,2}$

(I) $-X_{24}X_{41}X^2_{12}+X_{27}X_{71}X^2_{12}+X^1_{12}X_{24}X_{43}X_{31}-X^1_{12}X_{26}X_{67}X_{71}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}+X_{26}X_{65}X_{52}-X_{27}X_{75}X_{52}-X_{36}X_{65}X_{54}X_{43}+X_{36}X_{67}X_{75}X_{53}$

(II) $-X_{24}X_{41}X^2_{12}+X_{62}X^2_{27}X_{76}-X^1_{12}X^2_{27}X_{71}+X^1_{27}X_{71}X^2_{12}+X^1_{12}X_{24}X_{43}X_{31}-X^1_{27}X_{75}X_{56}X_{62}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{35}X_{54}X_{43}+X_{35}X_{56}X_{63}+X_{37}X_{75}X_{53}-X_{37}X_{76}X_{63}$

1.9 $X^{3,2}$

(I) $-X_{36}X_{62}X_{23}^2-X_{23}^1X_{34}^2X_{42}+X_{34}^1X_{42}X_{23}^2-X_{34}^1X_{45}^2X_{53}+X_{45}^1X_{53}X_{34}^2+X_{17}X_{74}X_{45}^2X_{51}+X_{23}^1X_{36}X_{67}X_{72}-X_{16}X_{67}X_{74}X_{45}^1X_{51}+X_{16}X_{62}X_{21}-X_{17}X_{72}X_{21}$

(II) $X_{27}X_{76}^2X_{62}-X_{34}X_{45}^2X_{53}+X_{61}X_{17}^2X_{76}^1-X_{17}^1X_{76}^2X_{61}+X_{24}X_{45}^1X_{53}X_{32}-X_{27}X_{76}^1X_{63}X_{32}+X_{17}^1X_{74}X_{45}^2X_{51}-X_{45}^1X_{51}X_{17}^2X_{74}-X_{24}X_{46}X_{62}+X_{34}X_{46}X_{63}$

(III) $-X_{15}X_{57}^1X_{71}^1+X_{15}X_{57}^2X_{71}^2+X_{16}X_{67}X_{71}^1-X_{23}X_{34}^2X_{42}-X_{34}^1X_{45}^2X_{53}+X_{45}^1X_{53}X_{34}^2-X_{45}^1X_{57}^2X_{74}+X_{57}^1X_{74}X_{45}^2-X_{16}X_{63}X_{37}X_{71}^2+X_{26}X_{63}X_{34}^1X_{42}+X_{23}X_{37}X_{72}-X_{26}X_{67}X_{72}$

1.10 $X^{3,1}$

(I) $-X_{21}X_{13}^2X_{32}+X_{37}X_{76}^1X_{61}X_{13}^2+X_{45}X_{57}X_{76}^2X_{64}+X_{13}^1X_{32}X_{25}X_{51}-X_{13}^1X_{37}X_{76}^2X_{61}-X_{25}X_{57}X_{76}^1X_{64}X_{42}+X_{14}X_{42}X_{21}-X_{14}X_{45}X_{51}$

(II) $X_{13}X_{32}X_{21}^2-X_{15}X_{52}^1X_{21}^2+X_{15}X_{52}^2X_{21}^1-X_{24}X_{45}^1X_{52}^2+X_{24}X_{45}^2X_{52}^1-X_{13}X_{36}X_{62}X_{21}^1-X_{57}X_{76}X_{64}X_{45}^2+X_{36}X_{64}X_{45}^1X_{57}X_{73}-X_{27}X_{73}X_{32}+X_{27}X_{76}X_{62}$

(III) $X_{15}X_{52}^2X_{21}-X_{24}X_{45}^1X_{52}^2+X_{24}X_{45}^2X_{52}^1-X_{37}X_{76}^2X_{63}-X_{15}X_{52}^1X_{23}X_{31}+X_{23}X_{37}X_{76}^1X_{62}-X_{57}X_{76}^1X_{64}X_{45}^2+X_{45}^1X_{57}X_{76}^2X_{64}-X_{16}X_{62}X_{21}+X_{16}X_{63}X_{31}$

(IV) $-X_{21}X_{13}^2X_{32}+X_{45}X_{56}^2X_{64}+X_{73}X_{36}^2X_{67}^2-X_{75}X_{56}^2X_{67}^2-X_{13}^1X_{36}^2X_{61}+X_{36}^1X_{61}X_{13}^2-X_{36}^1X_{67}^1X_{73}+X_{56}^1X_{67}^1X_{75}-X_{25}X_{56}^1X_{64}X_{42}+X_{13}^1X_{32}X_{25}X_{51}+X_{14}X_{42}X_{21}-X_{14}X_{45}X_{51}$

(V) $-X_{16}X_{67}^1X_{71}^1+X_{16}X_{67}^2X_{71}^2-X_{21}X_{13}^2X_{32}+X_{37}X_{71}^1X_{13}^2+X_{45}X_{57}X_{74}^2+X_{46}X_{67}^1X_{74}^1-X_{46}X_{67}^2X_{74}^2-X_{13}^1X_{37}X_{71}^2-X_{25}X_{57}X_{74}^1X_{42}+X_{13}^1X_{32}X_{25}X_{51}+X_{14}X_{42}X_{21}-X_{14}X_{45}X_{51}$

1.11 $K^{2,4,1,1}$

(I) $-X_{12}X_{27}X_{71}^2-X_{16}X_{67}X_{71}^1+X_{13}X_{32}X_{27}X_{71}^1+X_{16}X_{65}X_{57}X_{71}^2+X_{12}X_{24}X_{41}-X_{13}X_{34}X_{41}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}-X_{24}X_{46}X_{65}X_{53}X_{32}$

(II) $-X_{12}X_{23}^2X_{31}-X_{23}^1X_{34}^2X_{42}+X_{34}^1X_{42}X_{23}^2-X_{34}^1X_{45}X_{53}+X_{16}X_{62}X_{23}^1X_{31}+X_{47}X_{75}X_{53}X_{34}^2+X_{12}X_{27}X_{71}+X_{45}X_{56}X_{64}-X_{16}X_{64}X_{47}X_{71}-X_{27}X_{75}X_{56}X_{62}$

(III) $X_{27}X_{71}X_{12}^2-X_{31}X_{12}^2X_{23}^2-X_{12}^1X_{26}X_{61}+X_{12}^1X_{23}^1X_{31}-X_{23}^1X_{34}^2X_{42}+X_{34}^1X_{42}X_{23}^2+X_{47}X_{75}X_{53}X_{34}^2-X_{34}^1X_{46}X_{65}X_{53}+X_{14}X_{46}X_{61}-X_{14}X_{47}X_{71}+X_{26}X_{65}X_{52}-X_{27}X_{75}X_{52}$

1.12 $\mathbb{C}^3/\mathbb{Z}_8$ $(1,3,4)$

(I) $-X_{13}X_{32}X_{21}+X_{13}X_{38}X_{81}+X_{16}X_{67}X_{71}-X_{16}X_{68}X_{81}+X_{18}X_{82}X_{21}-X_{18}X_{87}X_{71}+X_{23}X_{34}X_{42}-X_{23}X_{38}X_{82}+X_{25}X_{53}X_{32}-X_{25}X_{54}X_{42}-X_{34}X_{45}X_{53}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{46}X_{67}X_{74}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}$

1.13 $\mathbf{dP}_1/\mathbb{Z}_2$ $(1,0,0,1)$

(I) $-X_{24}X_{43}^2X_{32}+X_{35}X_{54}^1X_{43}^2-X_{35}X_{54}^2X_{43}^1+X_{46}X_{65}X_{54}^2+X_{12}X_{24}X_{43}^1X_{31}-X_{46}X_{67}X_{75}X_{54}^1-X_{18}X_{83}X_{31}+X_{28}X_{83}X_{32}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{12}X_{28}X_{87}X_{71}+X_{18}X_{86}X_{67}X_{71}$

(II) $X_{21}X_{18}^2X_{82}-X_{35}X_{54}^2X_{43}+X_{46}X_{65}X_{54}^2-X_{71}X_{18}^2X_{87}+X_{23}X_{35}X_{54}^1X_{42}-X_{46}X_{67}X_{75}X_{54}^1-X_{18}^1X_{82}X_{23}X_{31}+X_{18}^1X_{86}X_{67}X_{71}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}$

(III) $-X_{13}X_{32}^2X_{21}+X_{24}X_{43}^1X_{32}^2-X_{24}X_{43}^2X_{32}^1+X_{35}X_{54}^1X_{43}^2-X_{35}X_{54}^2X_{43}^1+X_{46}X_{65}X_{54}^2+X_{13}X_{32}^1X_{28}X_{81}-X_{46}X_{67}X_{75}X_{54}^1+X_{17}X_{72}X_{21}-X_{17}X_{78}X_{81}-X_{28}X_{87}X_{72}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}+X_{67}X_{78}X_{86}$

1.14 $L^{1,3,1}/\mathbb{Z}_2$ $(1,0,0,1)$

(I) $X_{12}X_{23}X_{31}-X_{12}X_{26}X_{61}+X_{14}X_{42}X_{21}-X_{15}X_{52}X_{21}+X_{15}X_{56}X_{61}+X_{26}X_{65}X_{52}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}-X_{14}X_{47}X_{73}X_{31}-X_{23}X_{38}X_{84}X_{42}+X_{38}X_{86}X_{67}X_{73}+X_{47}X_{75}X_{58}X_{84}$

(II) $X_{12}X_{23}X_{31}-X_{12}X_{26}X_{61}+X_{15}X_{56}X_{61}-X_{17}X_{73}X_{31}+X_{17}X_{74}X_{41}-X_{23}X_{38}X_{82}+X_{24}X_{48}X_{82}+X_{26}X_{65}X_{52}-X_{48}X_{87}X_{74}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{15}X_{52}X_{24}X_{41}+X_{38}X_{86}X_{67}X_{73}$

1.15 $L^{3,5,2}$

(I) $X_{12}X_{24}X_{41}-X_{13}X_{34}X_{41}+X_{17}X_{76}X_{61}-X_{17}X_{78}X_{81}-X_{24}X_{43}X_{32}+X_{34}X_{47}X_{73}+X_{35}X_{54}X_{43}-X_{35}X_{57}X_{73}-X_{12}X_{28}X_{86}X_{61}+X_{13}X_{32}X_{28}X_{81}-X_{47}X_{76}X_{65}X_{54}+X_{57}X_{78}X_{86}X_{65}$

(II) $X_{57}X_{76}^2X_{65}-X_{68}X_{87}X_{76}^2+X_{18}X_{87}X_{76}^1X_{61}-X_{47}X_{76}^1X_{65}X_{54}+X_{12}X_{24}X_{41}-X_{12}X_{26}X_{61}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}-X_{18}X_{82}X_{21}-X_{24}X_{43}X_{32}+X_{26}X_{68}X_{82}+X_{34}X_{47}X_{73}+X_{35}X_{54}X_{43}-X_{35}X_{57}X_{73}$

1.16 $\mathcal{C}/\mathbb{Z}_4$ $(0,1,2,1)$

(I) $X_{14}X_{42}X_{27}X_{71}-X_{14}X_{46}X_{63}X_{31}+X_{18}X_{82}X_{23}X_{31}-X_{18}X_{85}X_{57}X_{71}-X_{23}X_{35}X_{54}X_{42}-X_{27}X_{76}X_{68}X_{82}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}$

(II) $X_{13}X_{34}X_{41}+X_{17}X_{78}X_{81}+X_{24}X_{43}X_{32}+X_{28}X_{87}X_{72}-X_{34}X_{46}X_{63}-X_{35}X_{54}X_{43}-X_{57}X_{78}X_{85}-X_{68}X_{87}X_{76}-X_{13}X_{32}X_{28}X_{81}-X_{17}X_{72}X_{24}X_{41}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}$

(III) $X_{13}X_{34}X_{41}-X_{13}X_{38}X_{81}-X_{17}X_{74}X_{41}+X_{17}X_{78}X_{81}+X_{23}X_{38}X_{82}+X_{27}X_{74}X_{42}-X_{34}X_{46}X_{63}-X_{57}X_{78}X_{85}-X_{23}X_{35}X_{54}X_{42}-X_{27}X_{76}X_{68}X_{82}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}$

(IV) $X_{13}X_{34}^1X_{41}-X_{23}X_{34}^2X_{42}+X_{45}X_{53}X_{34}^2-X_{34}^1X_{46}X_{63}-X_{13}X_{38}X_{81}-X_{17}X_{74}X_{41}+X_{23}X_{38}X_{82}+X_{27}X_{74}X_{42}-X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}+X_{17}X_{75}X_{58}X_{81}-X_{27}X_{76}X_{68}X_{82}$

1.17 $\mathbf{PdP}_{4c}$ (2)

(I) $X_{34}X_{45}^2X_{53}-X_{56}X_{64}X_{45}^2-X_{13}X_{34}X_{45}^1X_{51}+X_{45}^1X_{56}X_{67}X_{74}+X_{12}X_{25}X_{51}-X_{25}X_{53}X_{32}+X_{48}X_{86}X_{64}-X_{48}X_{87}X_{74}-X_{12}X_{28}X_{86}X_{67}X_{71}+X_{13}X_{32}X_{28}X_{87}X_{71}$

(II) $-X_{56}X_{64}X_{45}^2+X_{23}X_{34}X_{45}^2X_{52}+X_{45}^1X_{56}X_{67}X_{74}-X_{13}X_{34}X_{45}^1X_{52}X_{21}+X_{18}X_{82}X_{21}-X_{23}X_{38}X_{82}+X_{48}X_{86}X_{64}-X_{48}X_{87}X_{74}+X_{13}X_{38}X_{87}X_{71}-X_{18}X_{86}X_{67}X_{71}$

(III) $X_{71}X_{18}^2X_{87}-X_{82}X_{21}^2X_{18}^2+X_{18}^1X_{82}X_{21}^1-X_{15}X_{53}X_{32}X_{21}^1-X_{18}^1X_{86}X_{67}X_{71}+X_{15}X_{54}X_{43}X_{32}X_{21}^2-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{48}X_{86}X_{64}-X_{48}X_{87}X_{74}$

(IV) $X_{34}X_{45}^2X_{53}-X_{47}X_{76}X_{64}^2-X_{56}X_{64}^1X_{45}^2+X_{45}^1X_{56}X_{64}^2-X_{13}X_{34}X_{45}^1X_{51}+X_{47}X_{78}X_{86}X_{64}^1+X_{12}X_{25}X_{51}+X_{17}X_{76}X_{61}-X_{17}X_{78}X_{81}-X_{25}X_{53}X_{32}-X_{12}X_{28}X_{86}X_{61}+X_{13}X_{32}X_{28}X_{81}$

(V) $-X_{23}X_{31}X_{12}^2+X_{68}X_{87}^2X_{76}+X_{28}X_{87}^1X_{71}X_{12}^2-X_{46}X_{68}X_{87}^1X_{74}+X_{12}^1X_{23}X_{35}X_{51}-X_{12}^1X_{28}X_{87}^2X_{71}+X_{14}X_{43}X_{31}-X_{14}X_{45}X_{51}-X_{35}X_{54}X_{43}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{57}X_{76}X_{65}$

(VI) $-X_{15}X_{53}X_{31}^2-X_{23}X_{31}^1X_{12}^2+X_{28}X_{81}X_{12}^2+X_{12}^1X_{23}X_{31}^2+X_{15}X_{54}X_{43}X_{31}^1-X_{12}^1X_{28}X_{86}X_{61}+X_{17}X_{76}X_{61}-X_{17}X_{78}X_{81}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{47}X_{76}X_{65}X_{54}+X_{47}X_{78}X_{86}X_{64}$

(VII) $-X_{13}X_{32}X_{21}^1+X_{18}X_{82}X_{21}^1+X_{45}X_{56}X_{64}^2-X_{47}X_{76}X_{64}^2+X_{14}X_{43}X_{32}X_{21}^2-X_{17}X_{78}X_{82}X_{21}^2-X_{35}X_{56}X_{64}^1X_{43}+X_{47}X_{78}X_{86}X_{64}^1+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}+X_{17}X_{76}X_{61}-X_{18}X_{86}X_{61}$

(VIII) $-X_{13}X_{32}X_{21}^1+X_{68}X_{87}^2X_{76}+X_{71}X_{18}^2X_{87}^1-X_{82}X_{21}^2X_{18}^2+X_{18}^1X_{82}X_{21}^1-X_{18}^1X_{87}^2X_{71}+X_{14}X_{43}X_{32}X_{21}^2-X_{46}X_{68}X_{87}^1X_{74}+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}-X_{35}X_{54}X_{43}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{57}X_{76}X_{65}$

1.18 $\mathbf{PdP}_{4d}$ (2)

(I) $X_{35}X_{56}^1X_{64}X_{43}-X_{56}^1X_{68}X_{87}X_{75}+X_{17}X_{75}X_{56}^2X_{68}X_{81}-X_{23}X_{35}X_{56}^2X_{64}X_{42}+X_{12}X_{23}X_{31}-X_{12}X_{28}X_{81}+X_{14}X_{42}X_{21}-X_{14}X_{43}X_{31}-X_{17}X_{72}X_{21}+X_{28}X_{87}X_{72}$

(II) $X_{14}X_{42}^1X_{21}-X_{23}X_{34}X_{42}^1-X_{14}X_{42}^2X_{28}X_{81}+X_{25}X_{53}X_{34}X_{42}^2-X_{17}X_{72}X_{21}+X_{23}X_{36}X_{62}-X_{25}X_{56}X_{62}+X_{28}X_{87}X_{72}+X_{17}X_{75}X_{56}X_{68}X_{81}-X_{36}X_{68}X_{87}X_{75}X_{53}$

(III) $-X_{18}X_{87}^2X_{71}+X_{18}X_{87}^1X_{72}X_{21}+X_{56}X_{68}X_{87}^2X_{75}-X_{36}X_{68}X_{87}^1X_{75}X_{53}+X_{14}X_{47}X_{71}-X_{24}X_{47}X_{72}+X_{25}X_{53}X_{32}-X_{25}X_{56}X_{62}-X_{14}X_{43}X_{32}X_{21}+X_{24}X_{43}X_{36}X_{62}$

(IV) $-X_{18}X_{87}^2X_{71}+X_{35}X_{56}^1X_{63}+X_{18}X_{87}^1X_{72}X_{21}-X_{23}X_{35}X_{56}^2X_{62}+X_{68}X_{87}^2X_{75}X_{56}^2-X_{56}^1X_{68}X_{87}^1X_{75}-X_{14}X_{42}X_{21}+X_{14}X_{47}X_{71}+X_{23}X_{34}X_{42}+X_{24}X_{46}X_{62}-X_{24}X_{47}X_{72}-X_{34}X_{46}X_{63}$

(V) $X_{27}X_{71}X_{12}^2-X_{32}X_{24}^2X_{43}+X_{12}^1X_{24}^2X_{41}-X_{24}^1X_{41}X_{12}^2-X_{12}^1X_{27}X_{78}X_{81}+X_{24}^1X_{43}X_{36}X_{62}-X_{15}X_{57}X_{71}+X_{25}X_{53}X_{32}-X_{25}X_{56}X_{62}+X_{57}X_{78}X_{85}+X_{15}X_{56}X_{68}X_{81}-X_{36}X_{68}X_{85}X_{53}$

(VI) $X_{12}X_{24}^2X_{41}-X_{32}X_{24}^2X_{43}+X_{57}X_{76}^1X_{65}-X_{68}X_{87}X_{76}^1-X_{17}X_{72}X_{24}^1X_{41}+X_{17}X_{76}^2X_{68}X_{81}-X_{35}X_{57}X_{76}^2X_{63}+X_{24}^1X_{46}X_{63}X_{32}-X_{12}X_{28}X_{81}+X_{28}X_{87}X_{72}+X_{35}X_{54}X_{43}-X_{46}X_{65}X_{54}$

(VII) $-X_{18}X_{87}^2X_{71}+X_{36}X_{65}^2X_{53}+X_{57}X_{76}^1X_{65}^1-X_{57}X_{76}^2X_{65}^2-X_{68}X_{87}^1X_{76}^1+X_{68}X_{87}^2X_{76}^2+X_{18}X_{87}^1X_{72}X_{21}-X_{34}X_{46}X_{65}^1X_{53}-X_{14}X_{42}X_{21}+X_{14}X_{47}X_{71}+X_{23}X_{34}X_{42}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{24}X_{47}X_{72}$

(VIII) $X_{53}X_{36}^2X_{65}^2+X_{57}X_{76}^1X_{65}^1-X_{57}X_{76}^2X_{65}^2-X_{68}X_{87}X_{76}^1+X_{36}^1X_{64}X_{43}-X_{36}^1X_{65}^1X_{53}+X_{17}X_{76}^2X_{68}X_{81}-X_{23}X_{36}^2X_{64}X_{42}+X_{12}X_{23}X_{31}-X_{12}X_{28}X_{81}+X_{14}X_{42}X_{21}-X_{14}X_{43}X_{31}-X_{17}X_{72}X_{21}+X_{28}X_{87}X_{72}$

1.19 $K^{2,5,1,1}$

(I) $-X_{34}X_{42}X_{23}^2-X_{12}^1X_{28}X_{81}+X_{12}^1X_{23}^2X_{31}-X_{23}^1X_{31}X_{12}^2+X_{28}X_{87}X_{71}X_{12}^2+X_{23}^1X_{36}X_{64}X_{42}-X_{15}X_{57}X_{71}+X_{15}X_{58}X_{81}+X_{34}X_{45}X_{53}-X_{36}X_{65}X_{53}+X_{57}X_{76}X_{65}-X_{45}X_{58}X_{87}X_{76}X_{64}$

(II) $-X_{12}X_{23}^1X_{31}-X_{34}X_{42}X_{23}^2+X_{78}X_{85}X_{57}^2+X_{57}^1X_{76}X_{65}+X_{18}X_{82}X_{23}^2X_{31}-X_{18}X_{85}X_{57}^1X_{71}-X_{45}X_{57}^2X_{76}X_{64}+X_{23}^1X_{36}X_{64}X_{42}+X_{12}X_{27}X_{71}-X_{27}X_{78}X_{82}+X_{34}X_{45}X_{53}-X_{36}X_{65}X_{53}$

(III) $X_{17}X_{78}X_{81}^2+X_{28}X_{81}^1X_{12}^2-X_{12}^1X_{28}X_{81}^2+X_{12}^1X_{23}^2X_{31}-X_{23}^1X_{31}X_{12}^2+X_{23}^1X_{34}X_{42}-X_{17}X_{76}X_{68}X_{81}^1-X_{35}X_{54}X_{42}X_{23}^2-X_{34}X_{46}X_{63}-X_{57}X_{78}X_{85}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}$

(IV) $X_{15}X_{58}X_{81}^2-X_{16}X_{68}X_{81}^1+X_{28}X_{81}^1X_{12}^2-X_{12}^1X_{28}X_{81}^2+X_{12}^1X_{23}^2X_{31}-X_{23}^1X_{31}X_{12}^2+X_{23}^1X_{34}^2X_{42}-X_{34}^1X_{42}X_{23}^2-X_{46}X_{67}X_{73}X_{34}^2+X_{34}^1X_{45}X_{57}X_{73}-X_{15}X_{57}X_{71}+X_{16}X_{67}X_{71}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}$

1.20 $K^{2,4,1,2}$

(I) $-X_{45}X_{56}^2X_{64}+X_{68}X_{85}X_{56}^2+X_{35}X_{56}^1X_{64}X_{43}-X_{56}^1X_{67}X_{78}X_{85}-X_{16}X_{68}X_{81}+X_{24}X_{45}X_{52}-X_{13}X_{35}X_{52}X_{21}+X_{13}X_{37}X_{78}X_{81}+X_{16}X_{67}X_{72}X_{21}-X_{24}X_{43}X_{37}X_{72}$

(II) $X_{13}X_{37}X_{71}-X_{18}X_{87}X_{71}+X_{24}X_{45}X_{52}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}-X_{13}X_{35}X_{52}X_{21}-X_{24}X_{43}X_{37}X_{72}+X_{35}X_{56}X_{64}X_{43}-X_{45}X_{58}X_{86}X_{64}+X_{18}X_{86}X_{67}X_{72}X_{21}$

(III) $X_{13}X_{37}X_{71}-X_{18}X_{87}X_{71}+X_{23}X_{34}X_{42}-X_{23}X_{37}X_{72}-X_{34}X_{46}X_{63}+X_{35}X_{56}X_{63}+X_{46}X_{65}X_{54}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{13}X_{35}X_{54}X_{42}X_{21}+X_{18}X_{86}X_{67}X_{72}X_{21}$

(IV) $X_{27}X_{71}X_{12}^2+X_{12}^1X_{23}X_{31}-X_{12}^1X_{28}X_{81}-X_{24}X_{43}X_{31}X_{12}^2-X_{15}X_{57}X_{71}+X_{15}X_{58}X_{81}-X_{23}X_{35}X_{52}+X_{24}X_{45}X_{52}-X_{27}X_{76}X_{62}+X_{28}X_{86}X_{62}-X_{45}X_{58}X_{86}X_{64}+X_{35}X_{57}X_{76}X_{64}X_{43}$

(V) $-X_{34}X_{45}^2X_{53}+X_{24}X_{45}^1X_{53}X_{32}+X_{57}X_{76}X_{64}X_{45}^2-X_{45}^1X_{58}X_{86}X_{64}-X_{12}X_{24}X_{41}+X_{12}X_{27}X_{71}+X_{13}X_{34}X_{41}-X_{15}X_{57}X_{71}+X_{15}X_{58}X_{81}-X_{27}X_{76}X_{62}+X_{28}X_{86}X_{62}-X_{13}X_{32}X_{28}X_{81}$

(VI) $-X_{18}X_{87}^2X_{71}-X_{68}X_{87}^1X_{76}+X_{18}X_{87}^1X_{72}X_{21}+X_{58}X_{87}^2X_{76}X_{65}+X_{13}X_{37}X_{71}+X_{24}X_{45}X_{52}+X_{35}X_{54}X_{43}-X_{45}X_{58}X_{84}-X_{46}X_{65}X_{54}+X_{46}X_{68}X_{84}-X_{13}X_{35}X_{52}X_{21}-X_{24}X_{43}X_{37}X_{72}$

(VII) $X_{13}X_{34}^1X_{41}-X_{23}X_{34}^2X_{42}+X_{56}X_{64}X_{45}^2-X_{34}^1X_{45}^2X_{53}+X_{45}^1X_{53}X_{34}^2-X_{45}^1X_{58}X_{86}X_{64}-X_{13}X_{38}X_{81}-X_{17}X_{74}X_{41}+X_{23}X_{38}X_{82}+X_{27}X_{74}X_{42}-X_{27}X_{78}X_{82}-X_{56}X_{67}X_{75}+X_{67}X_{78}X_{86}+X_{17}X_{75}X_{58}X_{81}$

1.21 $\mathbf{PdP}_{4e}$ (3)

(I) $X_{13}X_{32}X_{21}^2+X_{17}X_{72}X_{21}^1-X_{13}X_{34}X_{42}X_{21}^1-X_{16}X_{67}X_{72}X_{21}^2+X_{16}X_{68}X_{81}-X_{17}X_{78}X_{81}-X_{25}X_{53}X_{32}+X_{25}X_{54}X_{42}-X_{46}X_{68}X_{85}X_{54}+X_{34}X_{46}X_{67}X_{78}X_{85}X_{53}$

(II) $X_{13}X_{32}X_{21}^2-X_{13}X_{34}X_{42}X_{21}^1+X_{18}X_{87}X_{72}X_{21}^1-X_{18}X_{86}X_{67}X_{72}X_{21}^2-X_{25}X_{53}X_{32}+X_{25}X_{54}X_{42}-X_{46}X_{65}X_{54}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}+X_{34}X_{46}X_{67}X_{75}X_{53}$

(III) $X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{28}^1X_{81}+X_{28}^1X_{87}X_{72}-X_{67}X_{72}X_{28}^2X_{86}+X_{12}^1X_{24}X_{43}X_{31}-X_{24}X_{45}X_{53}X_{31}X_{12}^2-X_{36}X_{64}X_{43}-X_{58}X_{87}X_{75}+X_{36}X_{67}X_{75}X_{53}+X_{45}X_{58}X_{86}X_{64}$

(IV) $X_{13}X_{32}X_{21}^2+X_{68}X_{87}^2X_{76}-X_{13}X_{34}X_{42}X_{21}^1+X_{18}X_{87}^1X_{72}X_{21}^1-X_{18}X_{87}^2X_{72}X_{21}^2-X_{56}X_{68}X_{87}^1X_{75}-X_{25}X_{53}X_{32}-X_{47}X_{76}X_{64}+X_{25}X_{56}X_{64}X_{42}+X_{34}X_{47}X_{75}X_{53}$

(V) $-X_{14}X_{42}X_{21}^1+X_{15}X_{52}X_{21}^2-X_{72}X_{21}^2X_{17}^2+X_{81}X_{17}^2X_{78}^2+X_{17}^1X_{72}X_{21}^1-X_{17}^1X_{78}^1X_{81}+X_{37}X_{78}^1X_{86}X_{65}X_{53}-X_{37}X_{78}^2X_{86}X_{64}X_{43}+X_{14}X_{43}X_{31}-X_{15}X_{53}X_{31}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}$

(VI) $X_{13}X_{32}^1X_{21}^2-X_{13}X_{32}^2X_{21}^1+X_{17}X_{72}X_{21}^1+X_{24}X_{43}X_{32}^2-X_{16}X_{67}X_{72}X_{21}^2-X_{24}X_{45}X_{53}X_{32}^1+X_{16}X_{68}X_{81}-X_{17}X_{78}X_{81}-X_{36}X_{64}X_{43}+X_{45}X_{56}X_{64}-X_{56}X_{68}X_{85}+X_{36}X_{67}X_{78}X_{85}X_{53}$

(VII) $-X_{72}X_{21}^2X_{17}^2+X_{81}X_{17}^2X_{78}^2+X_{17}^1X_{72}X_{21}^1-X_{17}^1X_{78}^1X_{81}-X_{13}X_{34}X_{42}X_{21}^1+X_{13}X_{35}X_{52}X_{21}^2-X_{47}X_{78}^2X_{86}X_{64}+X_{57}X_{78}^1X_{86}X_{65}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}$

(VIII) $X_{13}X_{32}^1X_{21}^2-X_{13}X_{32}^2X_{21}^1+X_{18}X_{82}X_{21}^1+X_{24}X_{43}X_{32}^2-X_{18}X_{86}X_{62}X_{21}^2-X_{24}X_{45}X_{53}X_{32}^1+X_{27}X_{76}X_{62}-X_{27}X_{78}X_{82}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{57}X_{76}X_{65}+X_{45}X_{57}X_{78}X_{86}X_{64}$

(IX) $-X_{13}X_{32}X_{21}^1-X_{67}X_{78}^2X_{86}-X_{72}X_{21}^2X_{17}^2+X_{81}X_{17}^2X_{78}^2+X_{17}^1X_{72}X_{21}^1-X_{17}^1X_{78}^1X_{81}+X_{13}X_{35}X_{52}X_{21}^2+X_{57}X_{78}^1X_{86}X_{65}+X_{24}X_{43}X_{32}+X_{46}X_{67}X_{74}-X_{24}X_{46}X_{65}X_{52}-X_{35}X_{57}X_{74}X_{43}$

(X) $X_{12}X_{28}^2X_{81}-X_{35}X_{54}^2X_{43}-X_{46}X_{65}X_{54}^1+X_{28}^1X_{87}X_{72}-X_{13}X_{32}X_{28}^1X_{81}+X_{25}X_{54}^1X_{43}X_{32}+X_{46}X_{67}X_{75}X_{54}^2-X_{67}X_{72}X_{28}^2X_{86}-X_{12}X_{25}X_{51}+X_{13}X_{35}X_{51}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}$

(XI) $X_{35}X_{54}X_{43}^2-X_{36}X_{64}X_{43}^1+X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{28}^1X_{81}-X_{24}X_{43}^2X_{31}X_{12}^2-X_{67}X_{72}X_{28}^2X_{86}+X_{12}^1X_{24}X_{43}^1X_{31}+X_{28}^1X_{85}X_{57}X_{72}-X_{35}X_{57}X_{73}+X_{36}X_{67}X_{73}-X_{48}X_{85}X_{54}+X_{48}X_{86}X_{64}$

(XII) $X_{13}X_{32}^1X_{21}^2-X_{13}X_{32}^2X_{21}^1-X_{25}X_{53}X_{32}^1+X_{26}X_{63}X_{32}^2+X_{18}X_{87}^1X_{72}X_{21}^1-X_{18}X_{87}^2X_{72}X_{21}^2-X_{48}X_{87}^1X_{75}X_{54}+X_{48}X_{87}^2X_{76}X_{64}+X_{25}X_{54}X_{42}-X_{26}X_{64}X_{42}+X_{37}X_{75}X_{53}-X_{37}X_{76}X_{63}$

(XIII) $-X_{31}X_{12}^2X_{23}^2+X_{35}X_{52}X_{23}^2-X_{47}X_{76}^1X_{64}+X_{57}X_{76}^2X_{65}-X_{68}X_{87}^1X_{76}^2+X_{68}X_{87}^2X_{76}^1-X_{72}X_{28}^2X_{87}^2+X_{81}X_{12}^2X_{28}^2+X_{12}^1X_{23}^1X_{31}-X_{12}^1X_{28}^1X_{81}-X_{23}^1X_{34}X_{42}+X_{28}^1X_{87}^1X_{72}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}$

1.22 $\mathbf{PdP}_{4f}$ (2)

(I) $X_{13}X_{34}X_{42}X_{21}^1+X_{18}X_{87}X_{72}X_{21}^2-X_{13}X_{35}X_{54}X_{42}X_{21}^2-X_{18}X_{86}X_{67}X_{72}X_{21}^1-X_{34}X_{46}X_{63}-X_{58}X_{87}X_{75}+X_{35}X_{58}X_{86}X_{63}+X_{46}X_{67}X_{75}X_{54}$

(II) $-X_{28}X_{81}X_{12}^2-X_{12}^1X_{23}X_{31}+X_{24}X_{43}X_{31}X_{12}^2+X_{12}^1X_{27}X_{78}X_{81}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}-X_{27}X_{75}X_{52}+X_{28}X_{85}X_{52}+X_{46}X_{67}X_{75}X_{54}-X_{36}X_{67}X_{78}X_{85}X_{54}X_{43}$

(III) $-X_{13}X_{32}X_{21}^2+X_{13}X_{36}X_{62}X_{21}^1-X_{18}X_{87}X_{72}X_{21}^1+X_{18}X_{85}X_{57}X_{72}X_{21}^2+X_{24}X_{43}X_{32}-X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}-X_{36}X_{68}X_{85}X_{54}X_{43}$

(IV) $X_{15}X_{52}X_{21}^2-X_{16}X_{62}X_{21}^1-X_{13}X_{34}^1X_{42}X_{21}^2+X_{13}X_{34}^2X_{42}X_{21}^1-X_{47}X_{76}X_{68}X_{83}X_{34}^2+X_{34}^1X_{47}X_{75}X_{58}X_{83}-X_{15}X_{58}X_{81}+X_{16}X_{68}X_{81}-X_{27}X_{75}X_{52}+X_{27}X_{76}X_{62}$

(V) $-X_{13}X_{34}X_{42}X_{21}^2+X_{16}X_{64}X_{42}X_{21}^1-X_{18}X_{87}^1X_{72}X_{21}^1+X_{18}X_{87}^2X_{72}X_{21}^2-X_{35}X_{58}X_{87}^2X_{73}+X_{58}X_{87}^1X_{76}X_{65}+X_{13}X_{35}X_{51}-X_{16}X_{65}X_{51}+X_{34}X_{47}X_{73}-X_{47}X_{76}X_{64}$

(VI) $-X_{14}X_{42}X_{21}^2-X_{58}X_{87}^2X_{75}+X_{16}X_{64}X_{42}X_{21}^1-X_{18}X_{87}^1X_{72}X_{21}^1+X_{18}X_{87}^2X_{72}X_{21}^2+X_{58}X_{87}^1X_{76}X_{65}+X_{14}X_{43}X_{31}+X_{37}X_{75}X_{53}-X_{16}X_{65}X_{53}X_{31}-X_{37}X_{76}X_{64}X_{43}$

(VII) $-X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{23}X_{31}+X_{12}^1X_{28}^1X_{81}-X_{28}^1X_{87}X_{72}+X_{24}X_{43}X_{31}X_{12}^2+X_{57}X_{72}X_{28}^2X_{85}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}-X_{36}X_{68}X_{85}X_{54}X_{43}$

(VIII) $-X_{58}X_{87}^2X_{75}+X_{72}X_{28}^2X_{87}^2-X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{23}X_{31}+X_{12}^1X_{28}^1X_{81}-X_{28}^1X_{87}^1X_{72}+X_{24}X_{43}X_{31}X_{12}^2+X_{56}X_{68}X_{87}^1X_{75}+X_{23}X_{36}X_{62}+X_{45}X_{58}X_{84}-X_{24}X_{45}X_{56}X_{62}-X_{36}X_{68}X_{84}X_{43}$

(IX) $-X_{12}X_{28}^2X_{81}+X_{34}X_{46}^2X_{63}-X_{28}^1X_{87}X_{72}+X_{46}^1X_{65}X_{54}+X_{13}X_{32}X_{28}^1X_{81}-X_{24}X_{46}^1X_{63}X_{32}-X_{54}X_{46}^2X_{68}X_{85}+X_{57}X_{72}X_{28}^2X_{85}+X_{12}X_{24}X_{41}-X_{13}X_{34}X_{41}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}$

(X) $X_{31}X_{12}^2X_{23}^2-X_{34}X_{42}X_{23}^2-X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{23}^1X_{31}+X_{12}^1X_{28}^1X_{81}-X_{28}^1X_{87}X_{72}+X_{57}X_{72}X_{28}^2X_{85}+X_{23}^1X_{36}X_{64}X_{42}+X_{34}X_{45}X_{53}+X_{68}X_{87}X_{76}-X_{36}X_{68}X_{85}X_{53}-X_{45}X_{57}X_{76}X_{64}$

(XI) $X_{31}X_{12}^2X_{23}^2-X_{34}X_{42}X_{23}^2+X_{72}X_{28}^2X_{87}^2-X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{23}^1X_{31}+X_{12}^1X_{28}^1X_{81}+X_{23}^1X_{36}X_{62}-X_{28}^1X_{87}^1X_{72}-X_{48}X_{87}^2X_{75}X_{54}+X_{56}X_{68}X_{87}^1X_{75}+X_{25}X_{54}X_{42}-X_{25}X_{56}X_{62}+X_{34}X_{48}X_{83}-X_{36}X_{68}X_{83}$

(XII) $X_{52}X_{28}^2X_{85}-X_{63}X_{37}^2X_{76}+X_{74}X_{43}^2X_{37}^2-X_{81}X_{12}^2X_{28}^2+X_{12}^1X_{28}^1X_{81}-X_{28}^1X_{86}X_{62}-X_{37}^1X_{74}X_{43}^1+X_{37}^1X_{75}X_{53}+X_{24}X_{43}^1X_{31}X_{12}^2-X_{12}^1X_{24}X_{43}^2X_{31}-X_{27}X_{75}X_{52}+X_{27}X_{76}X_{62}-X_{38}X_{85}X_{53}+X_{38}X_{86}X_{63}$

(XIII) $X_{31}X_{12}^2X_{23}^2-X_{46}X_{63}X_{34}^2-X_{81}X_{12}^2X_{28}^2-X_{12}^1X_{23}^1X_{31}+X_{12}^1X_{28}^1X_{81}+X_{23}^1X_{34}^2X_{42}-X_{34}^1X_{42}X_{23}^2+X_{34}^1X_{45}X_{53}+X_{57}X_{72}X_{28}^2X_{85}-X_{28}^1X_{86}X_{67}X_{72}-X_{38}X_{85}X_{53}+X_{38}X_{86}X_{63}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}$

1.23 $L^{5,4,1}$

(I) $X_{12}X_{23}X_{31}-X_{12}X_{28}X_{81}+X_{14}X_{42}X_{21}-X_{14}X_{43}X_{31}-X_{19}X_{92}X_{21}+X_{19}X_{98}X_{81}-X_{23}X_{34}X_{42}+X_{28}X_{89}X_{92}+X_{34}X_{45}X_{53}+X_{36}X_{64}X_{43}-X_{45}X_{56}X_{64}+X_{67}X_{79}X_{96}-X_{68}X_{89}X_{96}-X_{79}X_{98}X_{87}-X_{36}X_{67}X_{75}X_{53}+X_{56}X_{68}X_{87}X_{75}$

1.24 **SPP**/$\mathbb{Z}_3$ $(1,0,0,2)$

(I) $-X_{12}X_{28}X_{81}+X_{14}X_{43}X_{31}-X_{14}X_{45}X_{51}+X_{19}X_{98}X_{81}+X_{48}X_{86}X_{64}-X_{48}X_{87}X_{74}+X_{12}X_{23}X_{35}X_{51}-X_{19}X_{92}X_{23}X_{31}+X_{28}X_{87}X_{79}X_{92}-X_{35}X_{56}X_{64}X_{43}+X_{45}X_{56}X_{67}X_{74}-X_{67}X_{79}X_{98}X_{86}$

(II) $-X_{29}X_{98}^2X_{82}+X_{79}X_{98}^2X_{87}+X_{19}X_{98}^1X_{82}X_{21}-X_{67}X_{79}X_{98}^1X_{86}-X_{13}X_{32}X_{21}+X_{13}X_{35}X_{51}+X_{14}X_{43}X_{31}-X_{14}X_{45}X_{51}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}+X_{48}X_{86}X_{64}-X_{48}X_{87}X_{74}-X_{35}X_{56}X_{64}X_{43}+X_{45}X_{56}X_{67}X_{74}$

(III) $-X_{29}X_{98}^2X_{82}+X_{68}X_{87}^2X_{76}-X_{79}X_{98}^1X_{87}^2+X_{79}X_{98}^2X_{87}^1+X_{19}X_{98}^1X_{82}X_{21}-X_{46}X_{68}X_{87}^1X_{74}-X_{13}X_{32}X_{21}+X_{13}X_{35}X_{51}+X_{14}X_{43}X_{31}-X_{14}X_{45}X_{51}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{35}X_{54}X_{43}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{57}X_{76}X_{65}$

1.25 $\mathbf{PdP}_{5b}$ (2)

(I) $X_{12}X_{24}X_{41}-X_{12}X_{28}X_{81}+X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}+X_{19}X_{98}X_{81}-X_{24}X_{43}X_{32}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}+X_{28}X_{87}X_{79}X_{92}-X_{67}X_{79}X_{98}X_{86}-X_{13}X_{36}X_{65}X_{54}X_{41}+X_{36}X_{67}X_{75}X_{54}X_{43}$

(II) $X_{12}X_{24}X_{41}-X_{24}X_{43}X_{32}+X_{28}X_{87}X_{72}-X_{29}X_{97}X_{72}+X_{35}X_{56}X_{63}-X_{37}X_{76}X_{63}-X_{12}X_{28}X_{89}X_{91}+X_{13}X_{32}X_{29}X_{91}-X_{13}X_{35}X_{54}X_{41}+X_{37}X_{75}X_{54}X_{43}-X_{56}X_{68}X_{87}X_{75}+X_{68}X_{89}X_{97}X_{76}$

(III) $-X_{29}X_{98}^2X_{82}+X_{19}X_{98}^1X_{82}X_{21}+X_{57}X_{79}X_{98}^2X_{85}-X_{56}X_{67}X_{79}X_{98}^1X_{85}-X_{13}X_{32}X_{21}+X_{13}X_{34}X_{41}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{34}X_{46}X_{63}+X_{45}X_{56}X_{64}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}$

(IV) $-X_{29}X_{98}^2X_{82}+X_{79}X_{98}^2X_{87}+X_{19}X_{98}^1X_{82}X_{21}-X_{67}X_{79}X_{98}^1X_{86}-X_{13}X_{32}X_{21}+X_{13}X_{34}X_{41}+X_{16}X_{63}X_{31}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{34}X_{46}X_{63}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{16}X_{65}X_{54}X_{41}+X_{46}X_{67}X_{75}X_{54}$

(V) $X_{36}X_{64}^2X_{43}-X_{45}X_{56}X_{64}^2-X_{13}X_{36}X_{64}^1X_{41}+X_{45}X_{57}X_{76}X_{64}^1+X_{12}X_{24}X_{41}-X_{12}X_{28}X_{81}+X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}+X_{19}X_{98}X_{81}-X_{24}X_{43}X_{32}+X_{56}X_{69}X_{95}-X_{57}X_{79}X_{95}+X_{28}X_{87}X_{79}X_{92}-X_{69}X_{98}X_{87}X_{76}$

(VI) $X_{45}X_{56}^1X_{64}-X_{56}^1X_{67}X_{75}-X_{34}X_{45}X_{56}^2X_{63}+X_{69}X_{97}X_{75}X_{56}^2-X_{12}X_{28}X_{81}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{19}X_{98}X_{81}+X_{28}X_{89}X_{92}+X_{67}X_{78}X_{86}-X_{69}X_{98}X_{86}-X_{78}X_{89}X_{97}+X_{12}X_{23}X_{34}X_{41}-X_{19}X_{92}X_{23}X_{31}$

(VII) $X_{13}^1X_{32}X_{21}-X_{13}^1X_{34}X_{41}-X_{28}X_{81}X_{13}^2X_{32}+X_{34}X_{45}X_{51}X_{13}^2+X_{16}X_{64}X_{41}-X_{16}X_{65}X_{51}-X_{19}X_{92}X_{21}+X_{19}X_{98}X_{81}-X_{45}X_{56}X_{64}+X_{56}X_{67}X_{75}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}+X_{28}X_{87}X_{79}X_{92}-X_{67}X_{79}X_{98}X_{86}$

(VIII) $X_{36}X_{64}^2X_{43}+X_{45}X_{56}^1X_{64}^1-X_{45}X_{56}^2X_{64}^2-X_{56}^1X_{67}X_{75}-X_{13}X_{36}X_{64}^1X_{41}+X_{69}X_{97}X_{75}X_{56}^2+X_{12}X_{24}X_{41}-X_{12}X_{28}X_{81}+X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}+X_{19}X_{98}X_{81}-X_{24}X_{43}X_{32}+X_{28}X_{89}X_{92}+X_{67}X_{78}X_{86}-X_{69}X_{98}X_{86}-X_{78}X_{89}X_{97}$

1.26 $K^{2,5,1,2}$

(I) $-X_{13}X_{32}X_{21}+X_{24}X_{43}X_{32}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{67}X_{79}X_{96}-X_{18}X_{82}X_{24}X_{41}+X_{18}X_{89}X_{92}X_{21}+X_{13}X_{36}X_{65}X_{54}X_{41}-X_{57}X_{78}X_{89}X_{96}X_{65}$

(II) $X_{56}X_{67}^2X_{75}+X_{67}^1X_{79}X_{96}-X_{36}X_{67}^1X_{75}X_{53}-X_{78}X_{89}X_{96}X_{67}^2-X_{13}X_{32}X_{21}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{45}X_{56}X_{64}+X_{13}X_{36}X_{64}X_{41}-X_{18}X_{82}X_{24}X_{41}+X_{18}X_{89}X_{92}X_{21}+X_{24}X_{45}X_{53}X_{32}$

(III) $X_{14}X_{42}X_{21}^2-X_{18}X_{82}X_{21}^2-X_{13}X_{34}X_{42}X_{21}^1+X_{18}X_{89}X_{92}X_{21}^1-X_{14}X_{45}X_{51}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{36}X_{67}X_{73}+X_{67}X_{79}X_{96}+X_{13}X_{36}X_{65}X_{51}+X_{34}X_{45}X_{57}X_{73}-X_{57}X_{78}X_{89}X_{96}X_{65}$

(IV) $-X_{43}X_{35}^2X_{54}+X_{63}X_{35}^2X_{56}^2-X_{35}^1X_{56}^1X_{63}+X_{56}^1X_{68}X_{85}+X_{13}X_{35}^1X_{54}X_{41}-X_{67}X_{78}X_{85}X_{56}^2+X_{24}X_{43}X_{32}-X_{68}X_{89}X_{96}-X_{13}X_{32}X_{29}X_{91}-X_{17}X_{72}X_{24}X_{41}+X_{17}X_{78}X_{89}X_{91}+X_{29}X_{96}X_{67}X_{72}$

(V) $-X_{14}X_{43}^2X_{31}-X_{35}X_{54}X_{43}^1+X_{12}X_{24}X_{43}^1X_{31}+X_{36}X_{65}X_{54}X_{43}^2-X_{12}X_{28}X_{81}+X_{14}X_{48}X_{81}-X_{24}X_{48}X_{82}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}+X_{28}X_{89}X_{92}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{67}X_{79}X_{96}-X_{57}X_{78}X_{89}X_{96}X_{65}$

(VI) $-X_{14}X_{43}^2X_{31}+X_{35}^1X_{54}X_{43}^2-X_{35}^1X_{56}X_{63}-X_{43}^1X_{35}^2X_{54}+X_{12}X_{24}X_{43}^1X_{31}+X_{57}X_{76}X_{63}X_{35}^2-X_{12}X_{28}X_{81}+X_{14}X_{48}X_{81}-X_{24}X_{48}X_{82}+X_{27}X_{78}X_{82}+X_{28}X_{89}X_{92}+X_{56}X_{69}X_{95}-X_{27}X_{76}X_{69}X_{92}-X_{57}X_{78}X_{89}X_{95}$

(VII) $X_{14}X_{42}X_{21}^2-X_{18}X_{82}^1X_{21}^2+X_{18}X_{82}^2X_{21}^1+X_{27}X_{78}X_{82}^1-X_{29}X_{98}X_{82}^2-X_{13}X_{34}X_{42}X_{21}^1+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}-X_{27}X_{76}X_{62}+X_{29}X_{96}X_{62}-X_{57}X_{78}X_{85}+X_{59}X_{98}X_{85}-X_{35}X_{59}X_{96}X_{63}+X_{34}X_{45}X_{57}X_{76}X_{63}$

(VIII) $-X_{43}X_{35}^2X_{54}+X_{63}X_{35}^2X_{56}^2-X_{35}^1X_{56}^1X_{63}+X_{13}X_{35}^1X_{54}X_{41}-X_{67}X_{78}X_{85}X_{56}^2+X_{56}^1X_{69}X_{98}X_{85}-X_{13}X_{32}X_{21}+X_{17}X_{78}X_{81}+X_{19}X_{92}X_{21}-X_{19}X_{98}X_{81}+X_{24}X_{43}X_{32}+X_{26}X_{67}X_{72}-X_{26}X_{69}X_{92}-X_{17}X_{72}X_{24}X_{41}$

(IX) $X_{14}X_{42}X_{21}^2-X_{17}X_{72}X_{21}^2+X_{19}X_{92}X_{21}^1-X_{35}X_{56}^1X_{63}-X_{13}X_{34}X_{42}X_{21}^1+X_{34}X_{45}X_{56}^2X_{63}-X_{67}X_{78}X_{85}X_{56}^2+X_{56}^1X_{69}X_{98}X_{85}+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}+X_{17}X_{78}X_{81}-X_{19}X_{98}X_{81}+X_{26}X_{67}X_{72}-X_{26}X_{69}X_{92}$

(X) $-X_{18}X_{82}X_{21}^2+X_{31}X_{14}^2X_{43}^1+X_{35}X_{54}X_{43}^2-X_{36}X_{64}X_{43}^1+X_{14}^1X_{42}X_{21}^2-X_{14}^1X_{43}^2X_{31}-X_{21}^1X_{14}^2X_{42}+X_{18}X_{89}X_{92}X_{21}^1+X_{27}X_{78}X_{82}-X_{35}X_{59}X_{93}+X_{36}X_{69}X_{93}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}+X_{59}X_{97}X_{75}-X_{78}X_{89}X_{97}-X_{27}X_{76}X_{69}X_{92}$

1.27 $K^{2,4,1,3}$

(I) $-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{18}X_{82}X_{21}+X_{23}X_{34}X_{42}-X_{45}X_{56}X_{64}+X_{14}X_{45}X_{53}X_{31}-X_{18}X_{86}X_{69}X_{91}-X_{29}X_{97}X_{78}X_{82}-X_{34}X_{47}X_{75}X_{53}+X_{47}X_{78}X_{86}X_{64}+X_{56}X_{69}X_{97}X_{75}$

(II) $-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}+X_{18}X_{82}X_{21}-X_{18}X_{86}X_{61}+X_{19}X_{96}X_{61}+X_{23}X_{34}X_{42}-X_{27}X_{78}X_{82}+X_{27}X_{79}X_{92}-X_{34}X_{47}X_{73}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{19}X_{92}X_{23}X_{31}-X_{57}X_{79}X_{96}X_{65}+X_{47}X_{78}X_{86}X_{65}X_{54}$

(III) $-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}+X_{18}X_{82}X_{21}+X_{23}X_{34}X_{42}-X_{34}X_{47}X_{73}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{57}X_{76}X_{65}+X_{69}X_{97}X_{76}-X_{18}X_{86}X_{69}X_{91}-X_{29}X_{97}X_{78}X_{82}+X_{47}X_{78}X_{86}X_{65}X_{54}$

(IV) $-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{16}X_{68}X_{81}-X_{16}X_{69}X_{91}+X_{23}X_{34}X_{42}+X_{28}X_{87}X_{72}-X_{29}X_{97}X_{72}-X_{45}X_{56}X_{64}+X_{47}X_{76}X_{64}-X_{68}X_{87}X_{76}-X_{14}X_{42}X_{28}X_{81}+X_{14}X_{45}X_{53}X_{31}-X_{34}X_{47}X_{75}X_{53}+X_{56}X_{69}X_{97}X_{75}$

(V) $-X_{57}X^1_{76}X_{65}-X_{68}X_{87}X^2_{76}+X_{69}X_{97}X^1_{76}+X_{47}X^2_{76}X_{65}X_{54}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{14}X_{43}X_{31}+X_{16}X_{68}X_{81}-X_{16}X_{69}X_{91}+X_{23}X_{34}X_{42}+X_{28}X_{87}X_{72}-X_{29}X_{97}X_{72}-X_{34}X_{47}X_{73}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{14}X_{42}X_{28}X_{81}$

1.28 $K^{4,3,2,2}$

(I) $X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}+X_{28}X_{89}X_{92}-X_{13}X_{35}X_{54}X_{41}-X_{24}X_{46}X_{63}X_{32}-X_{28}X_{85}X_{57}X_{72}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}-X_{68}X_{89}X_{97}X_{76}+X_{19}X_{97}X_{72}X_{24}X_{41}$

(II) $X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{28}X_{89}X_{92}-X_{36}X_{65}X_{53}+X_{57}X_{76}X_{65}-X_{19}X_{92}X_{23}X_{31}-X_{28}X_{85}X_{57}X_{72}+X_{46}X_{68}X_{85}X_{54}-X_{68}X_{89}X_{97}X_{76}+X_{19}X_{97}X_{72}X_{24}X_{41}$

(III) $-X_{14}X_{42}X_{21}+X_{28}X_{89}X_{92}-X_{36}X_{65}X_{53}-X_{45}X_{56}X_{64}+X_{56}X_{68}X_{85}+X_{57}X_{76}X_{65}+X_{14}X_{45}X_{53}X_{31}-X_{19}X_{92}X_{23}X_{31}+X_{19}X_{97}X_{72}X_{21}+X_{23}X_{36}X_{64}X_{42}-X_{28}X_{85}X_{57}X_{72}-X_{68}X_{89}X_{97}X_{76}$

(IV) $-X_{36}X^1_{65}X_{53}+X_{46}X^2_{65}X_{54}+X_{57}X_{76}X^1_{65}-X_{58}X_{86}X^2_{65}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}-X_{25}X_{57}X_{72}+X_{25}X_{58}X_{82}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{19}X_{97}X_{72}X_{24}X_{41}-X_{19}X_{98}X_{82}X_{23}X_{31}$

(V) $X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}-X_{19}X_{92}X_{21}-X_{24}X_{43}X_{32}-X_{28}X_{87}X_{72}+X_{28}X_{89}X_{92}+X_{34}X_{45}X_{53}+X_{36}X_{64}X_{43}+X_{58}X_{87}X_{75}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}-X_{36}X_{67}X_{75}X_{53}-X_{45}X_{58}X_{86}X_{64}+X_{19}X_{97}X_{72}X_{24}X_{41}$

(VI) $-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}-X_{17}X_{79}X_{91}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}-X_{36}X_{65}X_{53}+X_{57}X_{76}X_{65}-X_{68}X_{87}X_{76}+X_{79}X_{98}X_{87}+X_{17}X_{72}X_{24}X_{41}+X_{46}X_{68}X_{85}X_{54}-X_{29}X_{98}X_{85}X_{57}X_{72}$

(VII) $-X_{27}X_{79}X^2_{92}+X_{28}X_{89}X^1_{92}-X_{19}X^1_{92}X_{23}X_{31}+X_{19}X^2_{92}X_{24}X_{41}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{27}X_{75}X_{52}-X_{28}X_{85}X_{52}+X_{67}X_{79}X_{96}-X_{68}X_{89}X_{96}-X_{36}X_{67}X_{75}X_{53}+X_{46}X_{68}X_{85}X_{54}$

(VIII) $X_{13}X_{32}X^1_{21}-X_{14}X_{42}X^2_{21}-X_{19}X_{92}X^1_{21}+X_{19}X_{97}X_{72}X^2_{21}-X_{13}X_{35}X_{51}+X_{14}X_{45}X_{51}-X_{26}X_{63}X_{32}+X_{26}X_{64}X_{42}+X_{28}X_{89}X_{92}-X_{45}X_{56}X_{64}+X_{56}X_{68}X_{85}-X_{28}X_{85}X_{57}X_{72}+X_{35}X_{57}X_{76}X_{63}-X_{68}X_{89}X_{97}X_{76}$

(IX) $X_{13}X_{32}X^1_{21}-X_{14}X_{42}X^2_{21}-X_{19}X^1_{92}X^1_{21}+X_{19}X^2_{92}X^2_{21}-X_{27}X_{79}X^2_{92}+X_{28}X_{89}X^1_{92}+X_{35}X^2_{56}X_{63}-X_{45}X^1_{56}X_{64}-X_{67}X_{75}X^2_{56}+X^1_{56}X_{68}X_{85}-X_{13}X_{35}X_{51}+X_{14}X_{45}X_{51}-X_{26}X_{63}X_{32}+X_{26}X_{64}X_{42}+X_{27}X_{75}X_{52}-X_{28}X_{85}X_{52}+X_{67}X_{79}X_{96}-X_{68}X_{89}X_{96}$

1.29 $\mathbf{PdP}_{5c}$ (3)

(I) $X_{19}X_{92}X_{21}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}-X_{19}X_{96}X_{68}X_{81}-X_{28}X_{87}X_{79}X_{92}+X_{14}X_{43}X_{32}X_{28}X_{81}-X_{14}X_{45}X_{53}X_{32}X_{21}+X_{45}X_{57}X_{79}X_{96}X_{64}$

(II) $-X_{18}X_{82}X_{21}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{69}X_{97}X_{76}+X_{14}X_{43}X_{32}X_{21}+X_{18}X_{86}X_{69}X_{91}+X_{29}X_{97}X_{78}X_{82}+X_{45}X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{65}-X_{14}X_{45}X_{53}X_{32}X_{29}X_{91}$

(III) $-X_{34}X^1_{45}X_{53}+X_{23}X_{34}X^2_{45}X_{52}+X^1_{45}X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{64}X^2_{45}+X_{15}X_{53}X_{31}-X_{69}X_{97}X_{76}-X_{15}X_{52}X_{29}X_{91}-X_{18}X_{82}X_{23}X_{31}+X_{18}X_{86}X_{69}X_{91}+X_{29}X_{97}X_{78}X_{82}$

(IV) $-X_{18}X_{82}X_{21}+X_{29}X_{98}X_{82}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}+X_{45}X_{56}X_{64}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{79}X_{98}X_{87}+X_{14}X_{43}X_{32}X_{21}+X_{18}X_{86}X_{67}X_{79}X_{91}-X_{14}X_{45}X_{53}X_{32}X_{29}X_{91}$

(V) $X_{14}X_{42}X^1_{21}-X_{18}X_{82}X^1_{21}+X_{19}X_{92}X^2_{21}-X_{14}X_{45}X_{52}X^2_{21}+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}-X_{23}X_{34}X_{42}+X_{23}X_{35}X_{52}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{35}X_{57}X_{78}X_{86}X_{63}+X_{34}X_{45}X_{57}X_{79}X_{96}X_{63}$

(VI) $-X_{43}X^2_{35}X_{54}+X_{24}X_{43}X^1_{35}X_{52}+X_{57}X_{79}X_{96}X_{63}X^2_{35}-X^1_{35}X_{57}X_{78}X_{86}X_{63}-X_{15}X_{52}X_{21}+X_{15}X_{54}X_{41}+X_{18}X_{86}X_{61}+X_{19}X_{92}X_{21}-X_{19}X_{96}X_{61}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{18}X_{82}X_{24}X_{41}$

(VII) $X_{14}X_{42}X^1_{21}-X_{14}X_{45}X_{52}X^2_{21}-X_{18}X_{87}X_{72}X^1_{21}+X_{19}X_{97}X_{72}X^2_{21}+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}-X_{23}X_{34}X_{42}+X_{23}X_{35}X_{52}+X_{58}X_{87}X_{75}-X_{59}X_{97}X_{75}-X_{35}X_{58}X_{86}X_{63}+X_{34}X_{45}X_{59}X_{96}X_{63}$

(VIII) $-X_{12}X_{24}X_{41}+X_{19}X_{94}X_{41}-X_{19}X_{98}X_{81}+X_{24}X_{43}X_{32}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{45}X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{65}+X_{12}X_{29}X_{97}X_{78}X_{81}-X_{29}X_{94}X_{45}X_{53}X_{32}$

(IX) $X_{35}X_{54}X^2_{43}+X_{14}X^1_{43}X_{32}X_{21}-X_{35}X_{56}X_{64}X^1_{43}-X_{14}X^2_{43}X_{32}X_{29}X_{91}-X_{18}X_{82}X_{21}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}+X_{56}X_{67}X_{75}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{18}X_{86}X_{69}X_{91}+X_{29}X_{97}X_{78}X_{82}$

(X) $X^1_{35}X_{54}X_{43}-X_{14}X_{43}X^2_{35}X_{51}+X_{57}X_{76}X_{63}X^2_{35}-X^1_{35}X_{57}X_{78}X_{86}X_{63}-X_{19}X_{98}X_{81}-X_{25}X_{54}X_{42}-X_{28}X_{89}X_{92}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{78}X_{89}X_{97}+X_{14}X_{42}X_{28}X_{81}+X_{19}X_{92}X_{25}X_{51}$

(XI) $-X^1_{19}X_{98}X_{81}-X_{21}X^2_{19}X_{93}X_{32}+X_{78}X_{81}X^2_{19}X_{97}+X^1_{19}X_{94}X_{42}X_{21}+X_{26}X_{63}X_{32}-X_{26}X_{64}X_{42}+X_{35}X_{59}X_{93}-X_{45}X_{59}X_{94}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{45}X_{57}X_{76}X_{64}-X_{35}X_{57}X_{78}X_{86}X_{63}$

(XII) $X_{14}X^1_{43}X_{31}+X_{35}X_{54}X^2_{43}-X_{14}X^2_{43}X_{39}X_{91}-X_{35}X_{56}X_{64}X^1_{43}-X_{12}X_{23}X_{31}-X_{26}X_{68}X_{82}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}+X_{12}X_{26}X_{69}X_{91}+X_{23}X_{39}X_{98}X_{82}+X_{56}X_{68}X_{87}X_{75}-X_{69}X_{98}X_{87}X_{76}$

(XIII) $-X_{43}X^2_{35}X_{54}+X_{57}X_{73}X^2_{35}+X_{24}X_{43}X^1_{35}X_{52}-X^1_{35}X_{57}X_{78}X_{83}+X_{15}X_{54}X_{41}+X_{18}X_{89}X_{91}-X_{36}X_{67}X_{73}+X_{36}X_{68}X_{83}-X_{68}X_{89}X_{96}-X_{15}X_{52}X_{29}X_{91}-X_{18}X_{82}X_{24}X_{41}+X_{29}X_{96}X_{67}X_{78}X_{82}$

(XIV) $-X_{18}X_{82}X^1_{21}+X_{19}X_{92}X^2_{21}+X_{14}X_{43}X_{32}X^1_{21}-X_{14}X_{45}X_{53}X_{32}X^2_{21}+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{36}X_{64}X_{43}+X_{36}X_{65}X_{53}-X_{57}X_{78}X_{86}X_{65}+X_{45}X_{57}X_{79}X_{96}X_{64}$

(XV) $-X_{19}X^2_{98}X_{81}-X_{79}X^1_{98}X_{87}+X_{12}X_{29}X^1_{98}X_{81}+X_{67}X_{79}X^2_{98}X_{86}+X_{19}X_{94}X_{41}+X_{23}X_{35}X_{52}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}-X_{12}X_{23}X_{34}X_{41}-X_{29}X_{94}X_{45}X_{52}+X_{34}X_{45}X_{56}X_{63}-X_{35}X_{58}X_{86}X_{63}$

(XVI) $-X_{46}X^2_{65}X_{54}+X_{57}X_{76}X^2_{65}+X_{34}X_{46}X^1_{65}X_{53}-X_{57}X_{78}X_{86}X^1_{65}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}-X_{18}X_{82}X_{21}-X_{69}X_{97}X_{76}+X_{18}X_{86}X_{69}X_{91}+X_{29}X_{97}X_{78}X_{82}-X_{15}X_{53}X_{32}X_{29}X_{91}$

(XVII) $-X_{34}X_{45}X^1_{53}+X_{36}X^1_{65}X^1_{53}-X_{36}X^2_{65}X^2_{53}+X_{57}X_{76}X^2_{65}+X_{15}X^2_{53}X_{34}X_{41}-X_{57}X_{78}X_{86}X^1_{65}+X_{24}X_{45}X_{52}-X_{69}X_{97}X_{76}-X_{15}X_{52}X_{29}X_{91}-X_{18}X_{82}X_{24}X_{41}+X_{18}X_{86}X_{69}X_{91}+X_{29}X_{97}X_{78}X_{82}$

(XVIII) $-X_{21}X^2_{19}X_{92}-X^1_{19}X_{98}X_{81}+X_{78}X_{81}X^2_{19}X_{97}+X^1_{19}X_{94}X_{42}X_{21}+X_{23}X_{39}X_{92}+X_{36}X_{65}X_{53}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}-X_{23}X_{36}X_{64}X_{42}-X_{39}X_{94}X_{45}X_{53}+X_{45}X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{65}$

(XIX) $X^1_{19}X_{92}X_{21}-X^1_{19}X_{98}X_{81}-X_{21}X^2_{19}X_{93}X_{32}+X_{78}X_{81}X^2_{19}X_{97}-X_{24}X_{49}X_{92}-X_{46}X_{65}X_{54}+X_{57}X_{76}X_{65}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{24}X_{46}X_{63}X_{32}+X_{35}X_{54}X_{49}X_{93}-X_{35}X_{57}X_{78}X_{86}X_{63}$

(XX) $-X_{13}X_{34}X^1_{45}X_{51}+X_{23}X_{34}X^2_{45}X_{52}+X^1_{45}X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{64}X^2_{45}+X_{13}X_{38}X_{81}+X_{19}X_{95}X_{51}-X_{19}X_{98}X_{81}-X_{23}X_{38}X_{82}-X_{29}X_{95}X_{52}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}+X_{29}X_{97}X_{78}X_{82}$

(XXI) $X_{13}X_{32}X^1_{21}+X_{19}X_{92}X^2_{21}-X_{15}X_{53}X_{32}X^2_{21}-X_{18}X_{89}X_{92}X^1_{21}-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}-X_{19}X_{97}X_{71}-X_{58}X_{86}X_{65}+X_{18}X_{86}X_{67}X_{71}+X_{34}X_{46}X_{65}X_{53}-X_{46}X_{67}X_{75}X_{54}+X_{58}X_{89}X_{97}X_{75}$

(XXII) $X_{13}X_{32}X^1_{21}-X_{17}X_{72}X^1_{21}-X_{15}X_{53}X_{32}X^2_{21}+X_{19}X_{97}X_{72}X^2_{21}-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}+X_{17}X_{78}X_{81}-X_{46}X_{65}X_{54}+X_{59}X_{96}X_{65}-X_{19}X_{96}X_{68}X_{81}-X_{59}X_{97}X_{78}X_{85}+X_{34}X_{46}X_{68}X_{85}X_{53}$

(XXIII) $X_{14}X^2_{43}X_{31}+X_{35}X_{54}X^1_{43}-X_{14}X^1_{43}X_{39}X_{91}-X_{35}X_{56}X_{64}X^2_{43}-X_{12}X_{23}X_{31}+X_{23}X_{39}X_{92}-X_{28}X_{89}X_{92}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}+X_{56}X_{67}X_{75}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{78}X_{89}X_{97}+X_{12}X_{28}X_{86}X_{69}X_{91}$

(XXIV) $X_{14}X^1_{42}X^1_{21}-X_{14}X^2_{42}X^2_{21}-X_{18}X_{82}X^1_{21}+X_{19}X_{92}X^2_{21}+X_{23}X_{34}X^2_{42}-X_{23}X_{35}X_{54}X^1_{42}+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{34}X_{47}X_{73}+X_{35}X_{57}X_{73}-X_{57}X_{78}X_{86}X_{65}+X_{47}X_{79}X_{96}X_{65}X_{54}$

(XXV) $-X_{79}X^1_{98}X_{87}+X_{81}X^2_{19}X^1_{98}-X^1_{19}X^2_{98}X_{81}-X_{21}X^2_{19}X_{93}X_{32}+X_{67}X_{79}X^2_{98}X_{86}+X^1_{19}X_{94}X_{42}X_{21}+X_{26}X_{63}X_{32}-X_{26}X_{64}X_{42}+X_{35}X_{59}X_{93}+X_{45}X_{56}X_{64}-X_{45}X_{59}X_{94}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}-X_{35}X_{58}X_{86}X_{63}$

(XXVI) $X_{14}X^1_{42}X_{21}+X_{25}X_{54}X^2_{42}-X_{14}X^2_{42}X_{29}X_{91}-X_{25}X_{53}X_{34}X^1_{42}-X_{18}X_{82}X_{21}+X_{18}X_{89}X_{91}+X_{34}X_{47}X_{73}-X_{36}X_{67}X_{73}+X_{36}X_{68}X_{83}+X_{37}X_{75}X_{53}-X_{37}X_{78}X_{83}-X_{47}X_{75}X_{54}-X_{68}X_{89}X_{96}+X_{29}X_{96}X_{67}X_{78}X_{82}$

(XXVII) $-X_{35}X^2_{54}X_{43}+X_{46}X^1_{65}X^2_{54}-X_{46}X^2_{65}X^1_{54}-X_{57}X_{76}X^1_{65}+X_{15}X^1_{54}X_{43}X_{31}+X_{57}X_{79}X_{96}X^2_{65}-X_{12}X_{23}X_{31}+X_{12}X_{28}X_{81}-X_{15}X_{52}X_{21}+X_{19}X_{92}X_{21}+X_{23}X_{35}X_{52}+X_{68}X_{87}X_{76}-X_{19}X_{96}X_{68}X_{81}-X_{28}X_{87}X_{79}X_{92}$

(XXVIII) $-X_{21}X^2_{19}X_{92}-X_{79}X^1_{98}X_{87}+X_{81}X^2_{19}X^1_{98}-X^1_{19}X^2_{98}X_{81}+X_{67}X_{79}X^2_{98}X_{86}+X^1_{19}X_{94}X_{42}X_{21}+X_{23}X_{39}X_{92}+X_{36}X_{65}X_{53}+X_{45}X_{56}X_{64}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{23}X_{36}X_{64}X_{42}-X_{39}X_{94}X_{45}X_{53}$

(XXIX) $X_{13}X_{32}X_{21}^1+X_{19}X_{92}X_{21}^2-X_{15}X_{53}X_{32}X_{21}^2-X_{18}X_{89}X_{92}X_{21}^1-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}+X_{18}X_{87}X_{71}-X_{19}X_{97}X_{71}+X_{34}X_{45}X_{53}-X_{45}X_{56}X_{64}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}-X_{68}X_{87}X_{76}+X_{56}X_{68}X_{89}X_{97}X_{75}$

(XXX) $X_{15}X_{53}^1X_{31}-X_{25}X_{53}^2X_{32}-X_{34}X_{45}^1X_{53}^1+X_{34}X_{45}^2X_{53}^2+X_{45}^1X_{57}X_{76}X_{64}-X_{57}X_{78}X_{86}X_{64}X_{45}^2-X_{15}X_{59}X_{91}-X_{18}X_{83}X_{31}+X_{25}X_{59}X_{92}+X_{28}X_{83}X_{32}-X_{28}X_{89}X_{92}-X_{69}X_{97}X_{76}+X_{78}X_{89}X_{97}+X_{18}X_{86}X_{69}X_{91}$

(XXXI) $-X_{21}X_{19}^2X_{92}-X_{19}^1X_{98}X_{81}+X_{78}X_{81}X_{19}^2X_{97}+X_{19}^1X_{94}X_{42}X_{21}+X_{23}X_{39}X_{92}+X_{35}X_{54}X_{43}-X_{39}X_{94}X_{43}-X_{47}X_{75}X_{54}+X_{47}X_{76}X_{64}+X_{56}X_{67}X_{75}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}-X_{23}X_{35}X_{56}X_{64}X_{42}$

(XXXII) $-X_{35}X_{54}^2X_{43}+X_{46}X_{65}^1X_{54}^2-X_{46}X_{65}^2X_{54}^1+X_{15}X_{54}^1X_{43}X_{31}-X_{57}X_{78}X_{86}X_{65}^1+X_{57}X_{79}X_{96}X_{65}^2-X_{15}X_{52}X_{21}+X_{18}X_{86}X_{61}+X_{19}X_{92}X_{21}-X_{19}X_{96}X_{61}+X_{23}X_{35}X_{52}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{18}X_{82}X_{23}X_{31}$

(XXXIII) $X_{13}X_{32}X_{21}^1+X_{81}X_{19}^2X_{98}+X_{19}^1X_{92}X_{21}^2-X_{19}^1X_{97}X_{71}-X_{21}^1X_{19}^2X_{92}-X_{15}X_{53}X_{32}X_{21}^2-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}+X_{16}X_{67}X_{71}-X_{16}X_{68}X_{81}+X_{59}X_{97}X_{75}-X_{59}X_{98}X_{85}-X_{46}X_{67}X_{75}X_{54}+X_{34}X_{46}X_{68}X_{85}X_{53}$

(XXXIV) $-X_{43}X_{35}^2X_{54}+X_{68}X_{87}X_{76}^2-X_{69}X_{97}X_{76}^1+X_{24}X_{43}X_{35}^1X_{52}+X_{57}X_{76}^1X_{63}X_{35}^2-X_{35}^1X_{57}X_{76}^2X_{63}-X_{12}X_{24}X_{41}+X_{12}X_{28}X_{81}+X_{15}X_{54}X_{41}-X_{16}X_{68}X_{81}+X_{16}X_{69}X_{91}-X_{28}X_{87}X_{72}+X_{29}X_{97}X_{72}-X_{15}X_{52}X_{29}X_{91}$

(XXXV) $X_{13}X_{32}X_{21}^1-X_{18}X_{82}X_{21}^1+X_{19}X_{92}X_{21}^2-X_{46}X_{65}^2X_{54}-X_{15}X_{53}X_{32}X_{21}^2+X_{34}X_{46}X_{65}^1X_{53}-X_{57}X_{78}X_{86}X_{65}^1+X_{57}X_{79}X_{96}X_{65}^2-X_{13}X_{34}X_{41}+X_{15}X_{54}X_{41}+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}$

(XXXVI) $-X_{19}X_{98}^2X_{81}+X_{29}X_{98}^1X_{82}+X_{56}X_{63}X_{35}^2-X_{79}X_{98}^1X_{87}-X_{14}X_{43}X_{35}^2X_{51}+X_{24}X_{43}X_{35}^1X_{52}+X_{67}X_{79}X_{98}^2X_{86}-X_{35}^1X_{58}X_{86}X_{63}+X_{14}X_{48}X_{81}+X_{19}X_{95}X_{51}-X_{24}X_{48}X_{82}-X_{29}X_{95}X_{52}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}$

(XXXVII) $X_{14}X_{42}^1X_{21}^1-X_{14}X_{42}^2X_{21}^2-X_{18}X_{82}X_{21}^1+X_{19}X_{92}X_{21}^2-X_{23}X_{34}^1X_{42}^1+X_{23}X_{34}^2X_{42}^2+X_{34}^1X_{45}X_{53}-X_{47}X_{75}X_{53}X_{34}^2+X_{18}X_{86}X_{61}-X_{19}X_{96}X_{61}+X_{27}X_{78}X_{82}-X_{27}X_{79}X_{92}-X_{45}X_{56}X_{64}+X_{56}X_{67}X_{75}-X_{67}X_{78}X_{86}+X_{47}X_{79}X_{96}X_{64}$

(XXXVIII) $-X_{19}X_{92}^1X_{21}+X_{23}X_{39}X_{92}^1-X_{24}X_{49}X_{92}^2+X_{36}X_{65}^1X_{53}-X_{46}X_{65}^2X_{54}+X_{57}X_{76}^1X_{65}^2-X_{57}X_{76}^2X_{65}^1+X_{68}X_{87}X_{76}^2+X_{18}X_{89}X_{92}^2X_{21}-X_{68}X_{89}X_{97}X_{76}^1-X_{18}X_{87}X_{71}+X_{19}X_{97}X_{71}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{39}X_{95}X_{53}+X_{49}X_{95}X_{54}$

(XXXIX) $-X_{21}X_{19}^2X_{92}^1+X_{23}X_{39}X_{92}^1-X_{24}X_{49}X_{92}^2-X_{79}X_{98}^1X_{87}+X_{81}X_{19}^2X_{98}^1+X_{19}^1X_{92}^2X_{21}-X_{19}^1X_{98}^2X_{81}+X_{67}X_{79}X_{98}^2X_{86}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}+X_{36}X_{65}X_{53}-X_{39}X_{95}X_{53}+X_{49}X_{95}X_{54}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{46}X_{67}X_{75}X_{54}$

(XL) $-X_{21}X_{19}^2X_{92}^1+X_{23}X_{39}X_{92}^1-X_{24}X_{49}X_{92}^2+X_{36}X_{65}^1X_{53}-X_{46}X_{65}^2X_{54}+X_{57}X_{76}X_{65}^2-X_{19}^1X_{98}X_{81}+X_{19}^1X_{92}^2X_{21}-X_{57}X_{78}X_{86}X_{65}^1+X_{78}X_{81}X_{19}^2X_{97}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{39}X_{95}X_{53}+X_{49}X_{95}X_{54}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}$

1.30 $\mathbb{C}^3/(\mathbb{Z}_2 \times \mathbb{Z}_5)$ $(1,0,1)(0,1,4)$

(I) $-X_{34}X_{4,10}X_{10,3}+X_{39}X_{9,10}X_{10,3}+X_{4,10}X_{10,9}X_{94}+X_{56}X_{6,10}X_{10,5}-X_{59}X_{9,10}X_{10,5}-X_{6,10}X_{10,9}X_{96}+X_{12}X_{25}X_{51}-X_{12}X_{27}X_{71}+X_{16}X_{62}X_{21}-X_{16}X_{65}X_{51}-X_{18}X_{82}X_{21}+X_{18}X_{87}X_{71}-X_{25}X_{56}X_{62}+X_{27}X_{78}X_{82}+X_{34}X_{48}X_{83}+X_{37}X_{74}X_{43}-X_{37}X_{78}X_{83}-X_{39}X_{94}X_{43}-X_{48}X_{87}X_{74}+X_{59}X_{96}X_{65}$

1.31 $L^{2,3,2}/\mathbb{Z}_2$ $(1,0,0,1)$

(I) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{89}X_{91}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{57}X_{7,10}X_{10,8}X_{85}+X_{12}X_{24}X_{41}-X_{12}X_{29}X_{91}+X_{13}X_{32}X_{21}-X_{13}X_{36}X_{64}X_{41}-X_{24}X_{45}X_{53}X_{32}+X_{36}X_{68}X_{85}X_{53}+X_{45}X_{57}X_{76}X_{64}-X_{68}X_{89}X_{97}X_{76}$

(II) $-X_{1,10}X_{10,2}X_{23}X_{31}+X_{1,10}X_{10,8}X_{89}X_{91}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{57}X_{7,10}X_{10,8}X_{85}+X_{12}X_{24}X_{41}-X_{12}X_{29}X_{91}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{56}X_{63}+X_{56}X_{68}X_{85}+X_{45}X_{57}X_{76}X_{64}-X_{68}X_{89}X_{97}X_{76}$

(III) $-X_{1,10}X_{10,2}X_{21}-X_{7,10}X_{10,8}X_{87}+X_{1,10}X_{10,8}X_{89}X_{91}+X_{29}X_{97}X_{7,10}X_{10,2}+X_{12}X_{24}X_{41}-X_{12}X_{29}X_{91}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}-X_{24}X_{43}X_{32}+X_{34}X_{46}X_{63}+X_{35}X_{54}X_{43}+X_{58}X_{87}X_{75}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}-X_{35}X_{58}X_{86}X_{63}-X_{46}X_{67}X_{75}X_{54}$

(IV) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{27}X_{7,10}X_{10,2}-X_{57}X_{7,10}X_{10,8}X_{85}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}-X_{19}X_{98}X_{81}-X_{27}X_{79}X_{92}+X_{34}X_{46}X_{63}+X_{38}X_{85}X_{53}-X_{38}X_{86}X_{63}+X_{45}X_{57}X_{74}-X_{46}X_{67}X_{74}+X_{19}X_{92}X_{24}X_{41}-X_{24}X_{45}X_{53}X_{32}+X_{67}X_{79}X_{98}X_{86}$

(V) $X_{12}X_{2,10}X_{10,1}-X_{18}X_{8,10}X_{10,1}-X_{2,10}X_{10,7}X_{72}+X_{78}X_{8,10}X_{10,7}-X_{12}X_{23}X_{31}+X_{18}X_{89}X_{91}+X_{29}X_{97}X_{72}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{68}X_{85}+X_{57}X_{76}X_{65}-X_{57}X_{78}X_{85}-X_{14}X_{42}X_{29}X_{91}+X_{14}X_{46}X_{63}X_{31}+X_{23}X_{35}X_{54}X_{42}-X_{68}X_{89}X_{97}X_{76}$

(VI) $X_{2,10}X_{10,1}X_{12}^2-X_{18}X_{8,10}X_{10,1}-X_{2,10}X_{10,7}X_{72}+X_{78}X_{8,10}X_{10,7}-X_{23}X_{31}X_{12}^2+X_{12}^1X_{24}X_{41}-X_{12}^1X_{29}X_{91}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{18}X_{89}X_{91}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}+X_{29}X_{97}X_{72}-X_{35}X_{56}X_{63}+X_{56}X_{68}X_{85}-X_{57}X_{78}X_{85}+X_{45}X_{57}X_{76}X_{64}-X_{68}X_{89}X_{97}X_{76}$

1.32 $L^{1,4,1}/\mathbb{Z}_2$ $(1,0,0,1)$

(I) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,9}X_{91}+X_{29}X_{9,10}X_{10,2}-X_{79}X_{9,10}X_{10,7}-X_{8,10}X_{10,9}X_{98}+X_{58}X_{8,10}X_{10,7}X_{75}+X_{12}X_{24}X_{41}-X_{12}X_{29}X_{91}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}-X_{24}X_{43}X_{32}+X_{34}X_{46}X_{63}+X_{35}X_{54}X_{43}-X_{35}X_{58}X_{86}X_{63}-X_{46}X_{67}X_{75}X_{54}+X_{67}X_{79}X_{98}X_{86}$

(II) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,9}X_{91}+X_{29}X_{9,10}X_{10,2}+X_{78}X_{8,10}X_{10,7}-X_{79}X_{9,10}X_{10,7}-X_{8,10}X_{10,9}X_{98}+X_{12}X_{24}X_{41}-X_{12}X_{29}X_{91}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}+X_{34}X_{46}X_{63}+X_{38}X_{85}X_{53}-X_{38}X_{86}X_{63}+X_{45}X_{57}X_{74}-X_{46}X_{67}X_{74}-X_{57}X_{78}X_{85}-X_{24}X_{45}X_{53}X_{32}+X_{67}X_{79}X_{98}X_{86}$

1.33 $\mathbf{PdP}_2/\mathbb{Z}_2$ $(1,1,1,1)$

(I) $-X_{12}X_{2,10}X_{10,1}+X_{18}X_{8,10}X_{10,1}+X_{2,10}X_{10,9}X_{98}X_{82}-X_{78}X_{8,10}X_{10,9}X_{97}+X_{12}X_{23}X_{31}+X_{14}X_{42}X_{21}-X_{18}X_{82}X_{21}-X_{23}X_{34}X_{42}+X_{45}X_{57}X_{74}-X_{46}X_{67}X_{74}-X_{57}X_{76}X_{65}+X_{67}X_{78}X_{86}+X_{69}X_{97}X_{76}-X_{69}X_{98}X_{86}-X_{14}X_{45}X_{53}X_{31}+X_{34}X_{46}X_{65}X_{53}$

(II) $X_{18}X_{8,10}X_{10,1}-X_{13}X_{32}X_{2,10}X_{10,1}+X_{2,10}X_{10,9}X_{98}X_{82}-X_{78}X_{8,10}X_{10,9}X_{97}+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}-X_{18}X_{82}X_{21}-X_{35}X_{54}X_{43}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{46}X_{67}X_{74}-X_{57}X_{76}X_{65}+X_{67}X_{78}X_{86}+X_{69}X_{97}X_{76}-X_{69}X_{98}X_{86}+X_{14}X_{43}X_{32}X_{21}$

(III) $-X_{28}X_{8,10}^2X_{10,2}+X_{98}X_{8,10}^2X_{10,9}+X_{12}X_{28}X_{8,10}^1X_{10,1}-X_{78}X_{8,10}^1X_{10,9}X_{97}-X_{13}X_{3,10}X_{10,1}+X_{23}X_{3,10}X_{10,2}-X_{12}X_{23}X_{31}+X_{13}X_{35}X_{51}+X_{14}X_{43}X_{31}-X_{14}X_{45}X_{51}-X_{35}X_{54}X_{43}+X_{45}X_{57}X_{74}+X_{46}X_{65}X_{54}-X_{46}X_{67}X_{74}-X_{57}X_{76}X_{65}+X_{67}X_{78}X_{86}+X_{69}X_{97}X_{76}-X_{69}X_{98}X_{86}$

1.34 $\mathbf{PdP}_{6a}$ (2)

(I) $X_{2,10}X_{10,8}X_{82}+X_{67}X_{7,10}X_{10,6}-X_{68}X_{8,10}X_{10,6}-X_{7,10}X_{10,8}X_{87}+X_{8,10}X_{10,9}X_{98}-X_{14}X_{42}X_{2,10}X_{10,9}X_{91}-X_{13}X_{35}X_{51}+X_{14}X_{45}X_{51}-X_{29}X_{98}X_{82}-X_{34}X_{45}X_{53}+X_{35}X_{57}X_{73}+X_{36}X_{65}X_{53}-X_{36}X_{67}X_{73}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}+X_{13}X_{34}X_{42}X_{29}X_{91}$

(II) $X_{2,10}X_{10,8}X_{82}+X_{67}X_{7,10}X_{10,6}-X_{68}X_{8,10}X_{10,6}-X_{7,10}X_{10,8}X_{87}+X_{8,10}X_{10,9}X_{98}-X_{12}X_{2,10}X_{10,9}X_{91}+X_{12}X_{24}X_{41}-X_{24}X_{43}X_{32}-X_{29}X_{98}X_{82}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}+X_{13}X_{32}X_{29}X_{91}-X_{13}X_{35}X_{54}X_{41}+X_{36}X_{65}X_{54}X_{43}$

(III) $-X_{12}X_{2,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}+X_{67}X_{7,10}X_{10,6}-X_{7,10}X_{10,8}X_{87}+X_{2,10}X_{10,8}X_{89}X_{92}-X_{68}X_{89}X_{9,10}X_{10,6}+X_{12}X_{24}X_{41}+X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}-X_{24}X_{43}X_{32}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}-X_{13}X_{35}X_{54}X_{41}+X_{36}X_{65}X_{54}X_{43}$

(IV) $X_{2,10}X_{10,8}X_{82}-X_{2,10}X_{10,9}X_{92}+X_{67}X_{7,10}X_{10,6}-X_{68}X_{8,10}X_{10,6}-X_{7,10}X_{10,8}X_{87}+X_{8,10}X_{10,9}X_{98}+X_{13}X_{34}^1X_{41}-X_{34}^1X_{45}X_{53}-X_{19}X_{93}X_{34}^2X_{41}+X_{45}X_{57}X_{73}X_{34}^2-X_{13}X_{32}X_{21}+X_{19}X_{92}X_{21}+X_{29}X_{93}X_{32}-X_{29}X_{98}X_{82}+X_{36}X_{65}X_{53}-X_{36}X_{67}X_{73}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}$

1.35 $K^{2,5,1,3}$

(I) $X_{19}X_{9,10}X_{10,1}+X_{12}X_{2,10}X_{10,8}X_{81}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{12}X_{23}X_{31}+X_{14}X_{43}X_{31}-X_{35}X_{56}X_{63}-X_{19}X_{96}X_{68}X_{81}+X_{23}X_{35}X_{54}X_{42}-X_{37}X_{75}X_{54}X_{43}+X_{37}X_{79}X_{96}X_{63}+X_{56}X_{68}X_{87}X_{75}$

(II) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{37}X_{74}X_{43}+X_{45}X_{57}X_{74}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}+X_{14}X_{43}X_{32}X_{21}-X_{19}X_{96}X_{68}X_{81}-X_{24}X_{45}X_{53}X_{32}+X_{37}X_{79}X_{96}X_{65}X_{53}$

(III) $-X_{28}X_{8,10}X_{10,2}+X_{29}X_{9,10}X_{10,2}-X_{69}X_{9,10}X_{10,7}X_{76}+X_{56}X_{68}X_{8,10}X_{10,7}X_{75}-X_{12}X_{23}X_{31}+X_{12}X_{28}X_{81}+X_{14}X_{43}X_{31}-X_{16}X_{68}X_{81}+X_{16}X_{69}X_{91}-X_{35}X_{56}X_{63}+X_{37}X_{76}X_{63}-X_{14}X_{42}X_{29}X_{91}+X_{23}X_{35}X_{54}X_{42}-X_{37}X_{75}X_{54}X_{43}$

(IV) $X_{19}X_{9,10}X_{10,1}+X_{12}X_{2,10}X_{10,8}X_{81}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{12}X_{23}X_{31}+X_{14}X_{43}X_{31}+X_{23}X_{34}X_{42}-X_{34}X_{45}X_{53}-X_{37}X_{74}X_{43}+X_{45}X_{57}X_{74}-X_{57}X_{76}X_{65}+X_{68}X_{87}X_{76}-X_{19}X_{96}X_{68}X_{81}+X_{37}X_{79}X_{96}X_{65}X_{53}$

(V) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{24}X_{43}^{2}X_{32}+X_{35}X_{54}X_{43}^{2}+X_{14}X_{43}^{1}X_{32}X_{21}-X_{37}X_{75}X_{54}X_{43}^{1}-X_{35}X_{56}X_{63}-X_{19}X_{96}X_{68}X_{81}+X_{37}X_{79}X_{96}X_{63}+X_{56}X_{68}X_{87}X_{75}$

(VI) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{67}X_{79}X_{9,10}X_{10,8}X_{86}+X_{14}X_{42}X_{21}-X_{19}X_{98}X_{81}-X_{23}X_{34}X_{42}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{57}X_{73}-X_{56}X_{69}X_{95}+X_{57}X_{79}X_{95}+X_{69}X_{98}X_{86}+X_{34}X_{45}X_{56}X_{67}X_{73}$

(VII) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{35}X_{57}^{2}X_{73}-X_{57}^{1}X_{76}X_{65}+X_{34}X_{45}X_{57}^{1}X_{73}+X_{65}X_{57}^{2}X_{79}X_{96}+X_{14}X_{42}X_{21}-X_{23}X_{34}X_{42}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}+X_{68}X_{87}X_{76}-X_{19}X_{96}X_{68}X_{81}$

(VIII) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{57}X_{79}X_{9,10}X_{10,8}X_{85}-X_{24}X_{43}^{2}X_{32}+X_{36}X_{64}X_{43}^{2}-X_{37}X_{74}X_{43}^{1}+X_{14}X_{43}^{1}X_{32}X_{21}-X_{19}X_{98}X_{81}-X_{36}X_{69}X_{93}+X_{37}X_{79}X_{93}-X_{45}X_{56}X_{64}+X_{45}X_{57}X_{74}+X_{56}X_{69}X_{98}X_{85}$

(IX) $-X_{14}X_{4,10}X_{10,1}+X_{19}X_{9,10}X_{10,1}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{79}X_{9,10}X_{10,8}X_{87}-X_{24}X_{43}^{2}X_{32}+X_{14}X_{43}^{1}X_{32}X_{21}+X_{36}X_{65}X_{54}X_{43}^{2}-X_{37}X_{75}X_{54}X_{43}^{1}-X_{19}X_{98}X_{81}-X_{36}X_{69}X_{93}+X_{37}X_{79}X_{93}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}+X_{69}X_{98}X_{86}$

(X) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}-X_{14}X_{4,10}X_{10,9}X_{91}-X_{24}X_{43}^{2}X_{32}+X_{35}X_{54}X_{43}^{2}+X_{14}X_{43}^{1}X_{32}X_{21}-X_{37}X_{75}X_{54}X_{43}^{1}-X_{16}X_{68}X_{81}+X_{16}X_{69}X_{91}-X_{35}X_{56}X_{63}+X_{37}X_{76}X_{63}-X_{69}X_{97}X_{76}+X_{56}X_{68}X_{87}X_{75}$

(XI) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}-X_{14}X_{4,10}X_{10,9}X_{91}-X_{57}X_{76}^{1}X_{65}+X_{68}X_{87}X_{76}^{1}-X_{69}X_{97}X_{76}^{2}+X_{37}X_{76}^{2}X_{65}X_{53}-X_{16}X_{68}X_{81}+X_{16}X_{69}X_{91}-X_{37}X_{74}X_{43}+X_{45}X_{57}X_{74}+X_{14}X_{43}X_{32}X_{21}-X_{24}X_{45}X_{53}X_{32}$

(XII) $-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,8}X_{81}+X_{24}X_{4,10}X_{10,2}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}-X_{14}X_{4,10}X_{10,9}X_{91}-X_{35}X_{57}^{2}X_{73}+X_{65}X_{57}^{2}X_{76}^{2}+X_{68}X_{87}X_{76}^{1}-X_{69}X_{97}X_{76}^{2}-X_{57}^{1}X_{76}^{1}X_{65}+X_{34}X_{45}X_{57}^{1}X_{73}+X_{14}X_{42}X_{21}-X_{16}X_{68}X_{81}+X_{16}X_{69}X_{91}-X_{23}X_{34}X_{42}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}$

1.36 $K^{4,4,2,2}$

(I) $X_{12}X_{2,10}X_{10,1}-X_{19}X_{9,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{13}X_{32}X_{2,10}X_{10,8}X_{81}-X_{12}X_{25}X_{51}+X_{13}X_{35}X_{51}-X_{35}X_{54}X_{43}+X_{47}X_{75}X_{54}+X_{19}X_{97}X_{78}X_{81}-X_{47}X_{78}X_{86}X_{64}-X_{56}X_{69}X_{97}X_{75}+X_{25}X_{56}X_{64}X_{43}X_{32}$

(II) $-X_{19}X_{9,10}X_{10,1}-X_{12}X_{2,10}X_{10,8}X_{81}+X_{13}X_{32}X_{2,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{86}+X_{12}X_{24}X_{41}+X_{35}X_{56}X_{63}-X_{67}X_{78}X_{86}-X_{13}X_{35}X_{54}X_{41}+X_{19}X_{97}X_{78}X_{81}-X_{24}X_{46}X_{63}X_{32}+X_{46}X_{67}X_{75}X_{54}-X_{56}X_{69}X_{97}X_{75}$

(III) $X_{67}X_{7,10}X_{10,6}-X_{7,10}X_{10,9}X_{97}+X_{28}X_{8,10}X_{10,9}X_{92}-X_{47}X_{78}X_{8,10}X_{10,6}X_{64}+X_{12}X_{23}X_{31}-X_{12}X_{28}X_{81}-X_{23}X_{34}X_{42}-X_{56}X_{67}X_{75}+X_{19}X_{97}X_{78}X_{81}+X_{25}X_{56}X_{64}X_{42}+X_{34}X_{47}X_{75}X_{53}-X_{19}X_{92}X_{25}X_{53}X_{31}$

(IV) $X_{23}X_{3,10}X_{10,2}-X_{13}X_{3,10}X_{10,8}X_{81}-X_{19}X_{9,10}X_{10,2}X_{21}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{23}X_{35}^{2}X_{52}-X_{35}^{1}X_{54}X_{43}+X_{13}X_{35}^{1}X_{52}X_{21}+X_{43}X_{35}^{2}X_{56}X_{64}+X_{47}X_{75}X_{54}+X_{19}X_{97}X_{78}X_{81}-X_{47}X_{78}X_{86}X_{64}-X_{56}X_{69}X_{97}X_{75}$

(V) $-X_{19}X_{9,10}X_{10,1}-X_{12}X_{2,10}X_{10,8}X_{81}+X_{13}X_{32}X_{2,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{86}+X_{12}X_{24}X_{41}-X_{13}X_{34}X_{41}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{19}X_{97}X_{78}X_{81}-X_{24}X_{46}X_{65}X_{53}X_{32}$

(VI) $X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}+X_{67}X_{79}X_{9,10}X_{10,6}-X_{47}X_{78}X_{8,10}X_{10,6}X_{64}-X_{12}X_{25}X_{51}+X_{12}X_{29}X_{91}+X_{13}X_{35}X_{51}+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}-X_{35}X_{54}X_{43}+X_{47}X_{75}X_{54}-X_{56}X_{67}X_{75}-X_{13}X_{32}X_{28}X_{81}+X_{25}X_{56}X_{64}X_{43}X_{32}$

(VII) $X_{2,10}X_{10,1}X_{12}^{2}-X_{12}^{1}X_{2,10}X_{10,8}X_{81}-X_{19}X_{9,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{23}X_{31}X_{12}^{2}+X_{12}^{1}X_{24}X_{43}X_{31}+X_{23}X_{35}X_{52}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{19}X_{97}X_{78}X_{81}-X_{24}X_{46}X_{65}X_{52}-X_{35}X_{57}X_{74}X_{43}$

(VIII) $X_{7,10}X_{10,8}X_{87}-X_{29}X_{9,10}X_{10,8}X_{82}-X_{47}X_{7,10}X_{10,6}X_{64}+X_{57}X_{79}X_{9,10}X_{10,6}X_{65}-X_{12}X_{23}^{2}X_{31}+X_{35}X_{52}X_{23}^{2}-X_{23}^{1}X_{34}X_{42}+X_{18}X_{82}X_{23}^{1}X_{31}+X_{12}X_{29}X_{91}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}-X_{18}X_{87}X_{79}X_{91}$

(IX) $X_{23}X_{3,10}X_{10,2}-X_{13}X_{3,10}X_{10,8}X_{81}-X_{19}X_{9,10}X_{10,2}X_{21}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{23}X_{35}^{2}X_{52}+X_{13}X_{35}^{1}X_{52}X_{21}+X_{43}X_{35}^{2}X_{56}X_{64}-X_{35}^{1}X_{57}X_{74}X_{43}+X_{19}X_{98}X_{81}-X_{48}X_{86}X_{64}+X_{48}X_{87}X_{74}-X_{56}X_{69}X_{95}+X_{57}X_{79}X_{95}-X_{79}X_{98}X_{87}$

(X) $-X_{1,10}X_{10,2}X_{21}+X_{28}X_{8,10}X_{10,2}-X_{8,10}X_{10,9}X_{98}+X_{1,10}X_{10,9}X_{97}X_{78}X_{81}+X_{12}X_{24}X_{41}-X_{12}X_{28}X_{81}+X_{13}X_{32}X_{21}-X_{13}X_{34}X_{41}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}-X_{24}X_{46}X_{65}X_{53}X_{32}$

(XI) $X_{13}X_{3,10}X_{10,1}-X_{19}X_{9,10}X_{10,1}+X_{1,10}X_{10,2}X_{21}-X_{1,10}X_{10,8}X_{81}-X_{23}X_{3,10}X_{10,2}+X_{69}X_{9,10}X_{10,8}X_{86}+X_{23}X_{34}^{2}X_{42}+X_{34}^{1}X_{45}X_{53}-X_{13}X_{34}^{1}X_{42}X_{21}-X_{46}X_{65}X_{53}X_{34}^{2}-X_{45}X_{57}X_{74}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{67}X_{78}X_{86}-X_{69}X_{97}X_{76}+X_{19}X_{97}X_{78}X_{81}$

(XII) $X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}-X_{47}X_{78}X_{8,10}X_{10,6}X_{64}+X_{57}X_{79}X_{9,10}X_{10,6}X_{65}+X_{29}X_{91}X_{12}^{2}-X_{31}X_{12}^{2}X_{23}^{2}+X_{35}X_{52}X_{23}^{2}-X_{12}^{1}X_{28}X_{81}+X_{12}^{1}X_{23}^{1}X_{31}-X_{23}^{1}X_{34}X_{42}+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}$

(XIII) $X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}+X_{46}X_{6,10}X_{10,4}-X_{56}X_{6,10}X_{10,5}-X_{47}X_{78}X_{8,10}X_{10,4}+X_{57}X_{79}X_{9,10}X_{10,5}+X_{29}X_{91}X_{12}^{2}-X_{31}X_{12}^{2}X_{23}^{2}-X_{12}^{1}X_{28}X_{81}+X_{12}^{1}X_{23}^{1}X_{31}+X_{35}X_{56}X_{62}X_{23}^{2}-X_{23}^{1}X_{34}X_{46}X_{62}+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}$

(XIV) $-X_{18}X_{8,10}^{2}X_{10,1}-X_{8,10}^{1}X_{10,9}X_{98}+X_{18}X_{8,10}^{1}X_{10,2}X_{21}+X_{78}X_{8,10}^{2}X_{10,9}X_{97}+X_{13}X_{3,10}X_{10,1}-X_{23}X_{3,10}X_{10,2}+X_{23}X_{35}X_{52}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}+X_{57}X_{76}X_{65}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}-X_{13}X_{34}X_{42}X_{21}-X_{47}X_{78}X_{86}X_{64}$

(XV) $X_{2,10}X_{10,1}X_{12}^2-X_{12}^1X_{2,10}X_{10,8}X_{81}-X_{19}X_{9,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{31}X_{12}^2X_{23}^2+X_{35}X_{52}X_{23}^2+X_{12}^1X_{23}^1X_{31}-X_{23}^1X_{34}X_{42}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}+X_{57}X_{76}X_{65}-X_{69}X_{97}X_{76}+X_{19}X_{97}X_{78}X_{81}-X_{47}X_{78}X_{86}X_{64}$

(XVI) $X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}+X_{46}X_{6,10}X_{10,4}-X_{6,10}X_{10,7}X_{76}+X_{79}X_{9,10}X_{10,7}-X_{47}X_{78}X_{8,10}X_{10,4}+X_{29}X_{91}X_{12}^2+X_{12}^1X_{23}X_{31}-X_{12}^1X_{28}X_{81}-X_{25}X_{53}X_{31}X_{12}^2+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}-X_{23}X_{34}X_{42}+X_{25}X_{54}X_{42}-X_{46}X_{65}X_{54}+X_{34}X_{47}X_{76}X_{65}X_{53}$

(XVII) $-X_{78}X_{8,10}X_{10,6}X_{67}^2+X_{67}^1X_{79}X_{9,10}X_{10,6}+X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}+X_{29}X_{91}X_{12}^2+X_{46}X_{67}^2X_{74}-X_{56}X_{67}^1X_{75}-X_{12}^1X_{28}X_{81}-X_{25}X_{53}X_{31}X_{12}^2+X_{12}^1X_{24}X_{43}X_{31}+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}-X_{24}X_{46}X_{62}+X_{25}X_{56}X_{62}-X_{37}X_{74}X_{43}+X_{37}X_{75}X_{53}$

(XVIII) $-X_{78}X_{8,10}X_{10,6}X_{67}^2+X_{67}^1X_{79}X_{9,10}X_{10,6}+X_{28}X_{8,10}X_{10,2}-X_{29}X_{9,10}X_{10,2}-X_{25}X_{51}X_{12}^2+X_{29}X_{91}X_{12}^2+X_{12}^1X_{24}X_{41}-X_{12}^1X_{28}X_{81}+X_{34}X_{46}X_{67}^2X_{73}-X_{35}X_{56}X_{67}^1X_{73}-X_{13}X_{34}X_{41}+X_{13}X_{35}X_{51}+X_{17}X_{78}X_{81}-X_{17}X_{79}X_{91}-X_{24}X_{46}X_{62}+X_{25}X_{56}X_{62}$

(XIX) $X_{18}X_{8,10}X_{10,1}^2-X_{19}X_{9,10}X_{10,1}^1+X_{2,10}X_{10,1}^1X_{12}^2-X_{12}^1X_{2,10}X_{10,1}^2-X_{68}X_{8,10}X_{10,6}+X_{69}X_{9,10}X_{10,6}-X_{31}X_{12}^2X_{23}^2+X_{35}X_{52}X_{23}^2-X_{47}X_{76}^2X_{64}+X_{57}X_{76}^1X_{65}+X_{68}X_{87}X_{76}^2-X_{69}X_{97}X_{76}^1+X_{12}^1X_{23}^1X_{31}-X_{23}^1X_{34}X_{42}-X_{18}X_{87}X_{71}+X_{19}X_{97}X_{71}+X_{26}X_{64}X_{42}-X_{26}X_{65}X_{52}+X_{34}X_{47}X_{73}-X_{35}X_{57}X_{73}$

1.37 $\mathbf{PdP}_{6b}$ (3)

(I) $X_{1,10}X_{10,2}X_{21}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{29}X_{98}X_{8,10}X_{10,2}+X_{68}X_{8,10}X_{10,7}X_{76}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}-X_{56}X_{68}X_{85}+X_{57}X_{79}X_{98}X_{85}+X_{23}X_{35}X_{56}X_{64}X_{42}-X_{35}X_{57}X_{76}X_{64}X_{43}$

(II) $-X_{14}X_{42}X_{2,10}X_{10,1}+X_{19}X_{97}X_{7,10}X_{10,1}+X_{2,10}X_{10,8}X_{89}X_{92}-X_{67}X_{7,10}X_{10,8}X_{86}+X_{14}X_{43}X_{31}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}-X_{78}X_{89}X_{97}-X_{19}X_{92}X_{23}X_{31}+X_{23}X_{35}X_{54}X_{42}-X_{35}X_{57}X_{74}X_{43}+X_{57}X_{78}X_{86}X_{65}$

(III) $-X_{14}X_{4,10}X_{10,1}+X_{24}X_{4,10}X_{10,2}-X_{29}X_{98}X_{86}X_{6,10}X_{10,2}+X_{19}X_{98}X_{87}X_{76}X_{6,10}X_{10,1}+X_{14}X_{43}X_{31}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{37}X_{74}X_{43}+X_{37}X_{75}X_{53}+X_{45}X_{57}X_{74}-X_{57}X_{76}X_{65}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{24}X_{45}X_{53}X_{32}$

(IV) $X_{17}X_{7,10}X_{10,1}+X_{2,10}X_{10,8}X_{82}-X_{67}X_{7,10}X_{10,8}X_{86}-X_{13}X_{34}X_{42}X_{2,10}X_{10,1}-X_{17}X_{79}X_{91}-X_{25}X_{53}X_{32}+X_{25}X_{54}X_{42}-X_{29}X_{98}X_{82}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{13}X_{32}X_{29}X_{91}+X_{57}X_{79}X_{98}X_{86}X_{65}$

(V) $X_{2,10}X_{10,9}X_{92}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{6,10}X_{10,9}X_{98}X_{86}+X_{19}X_{98}X_{87}X_{76}X_{6,10}X_{10,1}+X_{14}X_{43}X_{31}+X_{23}X_{34}X_{42}-X_{34}X_{45}X_{53}-X_{37}X_{74}X_{43}+X_{37}X_{75}X_{53}+X_{45}X_{57}X_{74}-X_{57}X_{76}X_{65}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{19}X_{92}X_{23}X_{31}$

(VI) $X_{17}X_{7,10}X_{10,1}+X_{2,10}X_{10,8}X_{82}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{67}X_{7,10}X_{10,8}X_{86}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{14}X_{43}X_{31}-X_{17}X_{79}X_{91}-X_{29}X_{98}X_{82}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{23}X_{35}X_{54}X_{42}-X_{35}X_{57}X_{74}X_{43}+X_{57}X_{79}X_{98}X_{86}X_{65}$

(VII) $X_{2,10}X_{10,9}X_{92}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{8,10}X_{10,9}X_{98}-X_{14}X_{42}X_{2,10}X_{10,1}+X_{19}X_{98}X_{87}X_{7,10}X_{10,1}+X_{14}X_{43}X_{31}+X_{23}X_{34}X_{42}-X_{34}X_{45}X_{53}-X_{37}X_{74}X_{43}+X_{37}X_{75}X_{53}-X_{19}X_{92}X_{23}X_{31}+X_{45}X_{56}X_{67}X_{74}-X_{56}X_{68}X_{87}X_{75}$

(VIII) $-X_{14}X_{4,10}X_{10,1}+X_{24}X_{4,10}X_{10,2}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{29}X_{98}X_{8,10}X_{10,2}+X_{19}X_{98}X_{87}X_{7,10}X_{10,1}+X_{14}X_{43}X_{31}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{37}X_{74}X_{43}+X_{37}X_{75}X_{53}-X_{24}X_{45}X_{53}X_{32}+X_{45}X_{56}X_{67}X_{74}-X_{56}X_{68}X_{87}X_{75}$

(IX) $X_{1,10}X_{10,2}X_{21}+X_{78}X_{8,10}X_{10,7}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{29}X_{98}X_{8,10}X_{10,2}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}-X_{67}X_{78}X_{86}+X_{23}X_{35}X_{54}X_{42}-X_{35}X_{57}X_{74}X_{43}+X_{57}X_{79}X_{98}X_{86}X_{65}$

(X) $X_{2,10}X_{10,9}X_{92}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{8,10}X_{10,9}X_{98}-X_{14}X_{42}X_{2,10}X_{10,1}+X_{19}X_{98}X_{87}X_{7,10}X_{10,1}+X_{14}X_{43}X_{31}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{68}X_{87}X_{76}-X_{19}X_{92}X_{23}X_{31}+X_{23}X_{35}X_{54}X_{42}-X_{35}X_{57}X_{74}X_{43}$

(XI) $X_{1,10}X_{10,2}X_{21}-X_{1,10}X_{10,7}X_{71}-X_{28}X_{8,10}X_{10,2}+X_{68}X_{8,10}X_{10,7}X_{76}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}+X_{19}X_{97}X_{71}+X_{28}X_{89}X_{92}-X_{56}X_{68}X_{85}+X_{57}X_{78}X_{85}-X_{78}X_{89}X_{97}-X_{19}X_{92}X_{23}X_{31}+X_{23}X_{35}X_{56}X_{64}X_{42}-X_{35}X_{57}X_{76}X_{64}X_{43}$

(XII) $X_{1,10}X_{10,2}X_{21}+X_{78}X_{8,10}X_{10,7}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{29}X_{98}X_{8,10}X_{10,2}-X_{25}X_{53}X_{32}+X_{25}X_{54}X_{42}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}-X_{67}X_{78}X_{86}+X_{13}X_{32}X_{29}X_{91}-X_{13}X_{34}X_{42}X_{21}+X_{57}X_{79}X_{98}X_{86}X_{65}$

(XIII) $-X_{7,10}X_{10,8}X_{87}-X_{14}X_{42}X_{2,10}X_{10,1}+X_{19}X_{97}X_{7,10}X_{10,1}+X_{2,10}X_{10,8}X_{89}X_{92}-X_{57}X^{1}_{76}X_{65}+X_{68}X_{87}X^{1}_{76}+X_{37}X^{2}_{76}X_{65}X_{53}-X_{68}X_{89}X_{97}X^{2}_{76}+X_{14}X_{43}X_{31}+X_{23}X_{34}X_{42}-X_{34}X_{45}X_{53}-X_{37}X_{74}X_{43}+X_{45}X_{57}X_{74}-X_{19}X_{92}X_{23}X_{31}$

(XIV) $-X_{14}X_{4,10}X_{10,1}+X_{24}X_{4,10}X_{10,2}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{29}X_{98}X_{8,10}X_{10,2}+X_{19}X_{98}X_{87}X_{7,10}X_{10,1}+X_{14}X^{1}_{43}X_{31}-X_{24}X^{2}_{43}X_{32}+X_{35}X_{54}X^{2}_{43}-X_{35}X_{57}X_{74}X^{1}_{43}-X_{19}X_{93}X_{31}+X_{29}X_{93}X_{32}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{68}X_{87}X_{76}$

(XV) $X_{2,10}X_{10,9}X_{92}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{8,10}X_{10,9}X_{98}-X_{13}X_{34}X_{42}X_{2,10}X_{10,1}+X_{19}X_{98}X_{87}X_{7,10}X_{10,1}+X_{13}X_{32}X_{21}-X_{19}X_{92}X_{21}-X_{25}X_{53}X_{32}+X_{25}X_{54}X_{42}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{68}X_{87}X_{76}$

(XVI) $-X_{1,10}X^{2}_{10,9}X_{91}-X_{8,10}X^{1}_{10,9}X_{98}+X_{12}X_{2,10}X^{1}_{10,9}X_{91}+X_{7,10}X^{2}_{10,9}X_{98}X_{87}+X_{1,10}X_{10,3}X_{31}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{2,10}X_{10,3}X_{34}X_{42}+X_{25}X_{54}X_{42}+X_{34}X_{45}X_{53}-X_{45}X_{57}X_{74}-X_{46}X_{65}X_{54}+X_{46}X_{67}X_{74}+X_{57}X_{76}X_{65}-X_{68}X_{87}X_{76}-X_{12}X_{25}X_{53}X_{31}$

(XVII) $-X_{1,10}X^{2}_{10,9}X_{91}+X_{2,10}X^{1}_{10,9}X_{92}-X_{6,10}X^{1}_{10,9}X_{98}X_{86}+X_{6,10}X^{2}_{10,9}X_{98}X_{87}X_{76}+X_{1,10}X_{10,4}X_{41}-X_{2,10}X_{10,4}X_{42}+X_{13}X_{39}X_{91}+X_{23}X_{34}X_{42}-X_{23}X_{39}X_{92}-X_{34}X_{45}X_{53}+X_{37}X_{75}X_{53}+X_{45}X_{57}X_{74}-X_{57}X_{76}X_{65}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{13}X_{37}X_{74}X_{41}$

(XVIII) $X_{1,10}X_{10,4}X_{41}-X_{1,10}X_{10,9}X_{91}-X_{2,10}X_{10,4}X_{42}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{2,10}X_{10,8}X_{89}X_{92}-X_{57}X^{1}_{76}X_{65}+X_{68}X_{87}X^{1}_{76}+X_{37}X^{2}_{76}X_{65}X_{53}-X_{68}X_{89}X_{97}X^{2}_{76}+X_{13}X_{39}X_{91}+X_{23}X_{34}X_{42}-X_{23}X_{39}X_{92}-X_{34}X_{45}X_{53}+X_{45}X_{57}X_{74}-X_{13}X_{37}X_{74}X_{41}$

(XIX) $X_{1,10}X_{10,2}X^1_{21} - X_{1,10}X_{10,7}X_{71} - X_{28}X_{8,10}X_{10,2} + X_{68}X_{8,10}X_{10,7}X_{76} + X_{13}X_{32}X^2_{21} - X_{19}X_{92}X^2_{21} - X_{13}X_{34}X_{42}X^1_{21} + X_{19}X_{97}X_{71} - X_{25}X_{53}X_{32} + X_{28}X_{89}X_{92} + X_{34}X_{45}X_{53} - X_{56}X_{68}X_{85} + X_{57}X_{78}X_{85} - X_{78}X_{89}X_{97} + X_{25}X_{56}X_{64}X_{42} - X_{45}X_{57}X_{76}X_{64}$

(XX) $-X_{8,10}X^1_{10,9}X_{98} + X_{12}X_{2,10}X^1_{10,9}X_{91} - X_{13}X_{3,10}X^2_{10,9}X_{91} + X_{7,10}X^2_{10,9}X_{98}X_{87} - X_{2,10}X_{10,4}X_{42} + X_{3,10}X_{10,4}X_{43} - X_{67}X_{7,10}X_{10,6} + X_{68}X_{8,10}X_{10,6} - X_{12}X_{25}X_{51} + X_{13}X_{35}X_{51} + X_{25}X_{54}X_{42} - X_{46}X_{65}X_{54} + X_{46}X_{67}X_{74} + X_{57}X_{76}X_{65} - X_{68}X_{87}X_{76} - X_{35}X_{57}X_{74}X_{43}$

(XXI) $-X_{1,10}X^2_{10,9}X_{91} + X_{2,10}X^1_{10,9}X_{92} - X_{8,10}X^1_{10,9}X_{98} + X_{7,10}X^2_{10,9}X_{98}X_{87} + X_{1,10}X_{10,4}X_{41} - X_{2,10}X_{10,4}X_{42} - X_{67}X_{7,10}X_{10,6} + X_{68}X_{8,10}X_{10,6} + X_{13}X_{39}X_{91} + X_{23}X_{34}X_{42} - X_{23}X_{39}X_{92} - X_{34}X_{45}X_{53} + X_{37}X_{75}X_{53} - X_{13}X_{37}X_{74}X_{41} + X_{45}X_{56}X_{67}X_{74} - X_{56}X_{68}X_{87}X_{75}$

(XXII) $-X_{21}X^2_{1,10}X_{10,2} - X_{8,10}X^1_{10,9}X_{98} + X_{91}X^2_{1,10}X^1_{10,9} + X^1_{1,10}X_{10,3}X_{31} - X^1_{1,10}X^2_{10,9}X_{91} + X_{7,10}X^2_{10,9}X_{98}X_{87} + X_{24}X_{4,10}X_{10,2} - X_{34}X_{4,10}X_{10,3} - X_{67}X_{7,10}X_{10,6} + X_{68}X_{8,10}X_{10,6} + X_{15}X_{52}X_{21} - X_{15}X_{53}X_{31} + X_{34}X_{45}X_{53} - X_{45}X_{57}X_{74} + X_{46}X_{67}X_{74} + X_{57}X_{76}X_{65} - X_{68}X_{87}X_{76} - X_{24}X_{46}X_{65}X_{52}$

(XXIII) $X_{1,10}X_{10,2}X^2_{21} + X_{8,10}X_{10,7}X^2_{78} - X_{1,10}X_{10,7}X_{71} - X_{28}X_{8,10}X_{10,2} + X_{13}X_{32}X^1_{21} - X_{19}X_{92}X^1_{21} - X_{67}X^2_{78}X_{86} - X^1_{78}X_{89}X_{97} - X_{13}X_{34}X_{42}X^2_{21} + X_{57}X^1_{78}X_{86}X_{65} + X_{19}X_{97}X_{71} - X_{25}X_{53}X_{32} + X_{25}X_{54}X_{42} + X_{28}X_{89}X_{92} + X_{34}X_{45}X_{53} - X_{45}X_{57}X_{74} - X_{46}X_{65}X_{54} + X_{46}X_{67}X_{74}$

1.38 $\mathbf{PdP}_{6c}$ (3)

(I) $-X_{7,10}X_{10,8}X_{87} - X_{1,10}X_{10,2}X_{24}X_{41} + X_{1,10}X_{10,8}X_{89}X_{91} + X_{29}X_{97}X_{7,10}X_{10,2} - X_{35}X_{56}X_{63} - X_{13}X_{32}X_{29}X_{91} + X_{13}X_{35}X_{54}X_{41} + X_{24}X_{46}X_{63}X_{32} + X_{56}X_{68}X_{87}X_{75} - X_{46}X_{68}X_{89}X_{97}X_{75}X_{54}$

(II) $X_{12}X_{2,10}X_{10,1} - X_{18}X_{8,10}X_{10,1} - X_{2,10}X_{10,7}X_{72} + X_{56}X_{68}X_{8,10}X_{10,7}X_{75} - X_{12}X_{24}X_{41} + X_{18}X_{89}X_{91} + X_{29}X_{97}X_{72} - X_{35}X_{56}X_{63} - X_{13}X_{32}X_{29}X_{91} + X_{13}X_{35}X_{54}X_{41} + X_{24}X_{46}X_{63}X_{32} - X_{46}X_{68}X_{89}X_{97}X_{75}X_{54}$

(III) $-X_{7,10}X_{10,8}X_{87} + X_{1,10}X_{10,8}X_{89}X_{91} + X_{29}X_{97}X_{7,10}X_{10,2} - X_{1,10}X_{10,2}X_{24}X_{45}X_{51} - X_{12}X_{29}X_{91} - X_{23}X_{36}X_{62} + X_{24}X_{46}X_{62} - X_{35}X_{57}X_{73} + X_{45}X_{57}X_{74} + X_{12}X_{23}X_{35}X_{51} + X_{36}X_{68}X_{87}X_{73} - X_{46}X_{68}X_{89}X_{97}X_{74}$

(IV) $-X_{1,10}X_{10,2}X_{21} - X_{7,10}X_{10,8}X_{87} + X_{1,10}X_{10,8}X_{89}X_{91} + X_{29}X_{97}X_{7,10}X_{10,2} + X_{12}X_{23}X_{31} - X_{12}X_{29}X_{91} + X_{14}X_{42}X_{21} + X_{45}X_{56}X_{64} - X_{14}X_{45}X_{53}X_{31} - X_{23}X_{36}X_{64}X_{42} + X_{36}X_{68}X_{87}X_{75}X_{53} - X_{56}X_{68}X_{89}X_{97}X_{75}$

(V) $-X_{19}X_{9,10}X_{10,1} + X_{14}X_{42}X_{2,10}X_{10,1} - X_{2,10}X_{10,7}X_{79}X_{92} + X_{78}X_{89}X_{9,10}X_{10,7} - X_{14}X_{43}X_{31} + X_{48}X_{86}X_{64} + X_{57}X_{79}X_{95} + X_{19}X_{92}X_{23}X_{31} - X_{23}X_{36}X_{64}X_{42} + X_{36}X_{65}X_{54}X_{43} - X_{48}X_{89}X_{95}X_{54} - X_{57}X_{78}X_{86}X_{65}$

(VI) $X_{12}X_{2,10}X_{10,1} - X_{2,10}X_{10,8}X_{82} + X_{69}X_{9,10}X_{10,8}X_{86} - X_{13}X_{32}X_{29}X_{9,10}X_{10,1} - X_{12}X_{24}X_{41} - X_{35}X_{56}X_{63} + X_{56}X_{67}X_{75} - X_{67}X_{78}X_{86} + X_{13}X_{35}X_{54}X_{41} + X_{24}X_{46}X_{63}X_{32} + X_{29}X_{97}X_{78}X_{82} - X_{46}X_{69}X_{97}X_{75}X_{54}$

(VII) $-X_{7,10}X_{10,8}X_{87}-X_{1,10}X_{10,2}X_{24}X_{41}+X_{1,10}X_{10,8}X_{89}X_{91}+X_{29}X_{97}X_{7,10}X_{10,2}+X_{24}X_{43}X_{32}-X_{36}X_{64}X_{43}+X_{48}X_{86}X_{64}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{13}X_{32}X_{29}X_{91}+X_{13}X_{36}X_{65}X_{54}X_{41}-X_{48}X_{89}X_{97}X_{75}X_{54}$

(VIII) $-X_{8,10}X_{10,9}X^1_{98}+X_{29}X^2_{98}X_{8,10}X_{10,2}+X_{1,10}X_{10,9}X_{91}-X_{1,10}X_{10,2}X_{24}X_{41}-X_{79}X^2_{98}X_{87}+X_{69}X^1_{98}X_{87}X_{76}+X_{57}X_{79}X_{95}-X_{13}X_{32}X_{29}X_{91}+X_{13}X_{35}X_{54}X_{41}+X_{24}X_{46}X_{63}X_{32}-X_{35}X_{57}X_{76}X_{63}-X_{46}X_{69}X_{95}X_{54}$

(IX) $X_{2,10}X_{10,1}X^2_{12}-X_{18}X_{8,10}X_{10,1}-X_{2,10}X_{10,7}X_{72}+X_{36}X_{68}X_{8,10}X_{10,7}X_{75}X_{53}-X_{24}X_{41}X^2_{12}+X^1_{12}X_{23}X_{31}-X^1_{12}X_{29}X_{91}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}+X_{18}X_{89}X_{91}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}+X_{29}X_{97}X_{72}-X_{46}X_{68}X_{89}X_{97}X_{75}X_{54}$

(X) $-X_{19}X_{9,10}X_{10,1}-X_{2,10}X_{10,9}X_{92}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{89}X_{9,10}X_{10,8}+X_{14}X_{42}X_{2,10}X_{10,1}-X_{14}X_{43}X_{31}-X_{23}X_{34}X_{42}+X_{34}X_{46}X_{63}+X_{35}X_{54}X_{43}-X_{35}X_{56}X_{63}+X_{19}X_{92}X_{23}X_{31}+X_{56}X_{68}X_{87}X_{75}-X_{46}X_{68}X_{89}X_{97}X_{75}X_{54}$

(XI) $X^1_{56}X_{68}X_{8,10}X_{10,7}X_{75}-X_{18}X_{8,10}X_{10,1}-X_{2,10}X_{10,7}X_{72}+X_{14}X_{42}X_{2,10}X_{10,1}-X_{35}X^1_{56}X_{63}+X_{45}X^2_{56}X_{64}-X_{68}X_{89}X_{97}X_{75}X^2_{56}+X_{13}X_{35}X_{51}-X_{14}X_{45}X_{51}+X_{18}X_{89}X_{91}+X_{26}X_{63}X_{32}-X_{26}X_{64}X_{42}+X_{29}X_{97}X_{72}-X_{13}X_{32}X_{29}X_{91}$

(XII) $X_{14}X_{4,10}X_{10,1}-X_{19}X_{9,10}X_{10,1}-X_{24}X_{4,10}X_{10,2}-X_{7,10}X_{10,8}X_{87}+X_{89}X_{9,10}X_{10,8}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{14}X_{43}X_{31}+X_{19}X_{93}X_{31}-X_{29}X_{93}X_{32}+X_{35}X_{54}X_{43}-X_{35}X_{56}X_{63}+X_{24}X_{46}X_{63}X_{32}+X_{56}X_{68}X_{87}X_{75}-X_{46}X_{68}X_{89}X_{97}X_{75}X_{54}$

(XIII) $X_{28}X_{8,10}X_{10,1}X^2_{12}-X^1_{12}X_{29}X_{9,10}X_{10,1}-X_{68}X_{8,10}X_{10,6}+X_{69}X_{9,10}X_{10,6}-X_{24}X_{41}X^2_{12}+X^1_{12}X_{23}X_{31}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{28}X_{87}X_{72}+X_{29}X_{97}X_{72}+X_{36}X_{68}X_{87}X_{75}X_{53}-X_{46}X_{69}X_{97}X_{75}X_{54}$

(XIV) $X_{1,10}X_{10,9}X_{91}-X_{8,10}X_{10,9}X_{98}-X_{1,10}X_{10,2}X_{24}X_{41}+X_{29}X_{97}X_{78}X_{8,10}X_{10,2}+X_{12}X_{23}X_{31}-X_{12}X_{29}X_{91}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{67}X_{78}X_{86}+X_{69}X_{98}X_{86}+X_{36}X_{67}X_{75}X_{53}-X_{46}X_{69}X_{97}X_{75}X_{54}$

(XV) $-X_{19}X_{9,10}X_{10,1}-X_{2,10}X_{10,9}X_{92}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{89}X_{9,10}X_{10,8}+X_{14}X_{42}X_{2,10}X_{10,1}-X_{14}X_{43}X_{31}+X_{48}X_{86}X_{64}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}+X_{19}X_{92}X_{23}X_{31}-X_{23}X_{36}X_{64}X_{42}+X_{36}X_{65}X_{54}X_{43}-X_{48}X_{89}X_{97}X_{75}X_{54}$

(XVI) $-X_{2,10}X_{10,8}X_{82}-X_{12}X_{29}X_{9,10}X_{10,1}+X_{14}X_{42}X_{2,10}X_{10,1}+X_{69}X_{9,10}X_{10,8}X_{87}X_{76}+X_{12}X_{23}X_{31}+X_{29}X_{98}X_{82}+X_{36}X_{65}X_{53}+X_{45}X_{56}X_{64}-X_{56}X_{69}X_{95}-X_{57}X_{76}X_{65}+X_{57}X_{79}X_{95}-X_{79}X_{98}X_{87}-X_{14}X_{45}X_{53}X_{31}-X_{23}X_{36}X_{64}X_{42}$

(XVII) $-X_{1,10}X_{10,4}X_{41}+X_{2,10}X_{10,4}X_{42}-X_{2,10}X_{10,9}X_{92}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{1,10}X_{10,8}X_{89}X_{91}-X_{13}X_{39}X_{91}+X_{23}X_{39}X_{92}+X_{48}X_{86}X_{64}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{23}X_{36}X_{64}X_{42}+X_{13}X_{36}X_{65}X_{54}X_{41}-X_{48}X_{89}X_{97}X_{75}X_{54}$

(XVIII) $X_{14}X_{4,10}X_{10,1}-X_{24}X_{4,10}X_{10,2}-X_{67}X_{7,10}X_{10,6}+X_{68}X_{8,10}X_{10,6}-X_{19}X_{98}X_{8,10}X_{10,1}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{14}X^1_{45}X_{53}X_{31}+X_{24}X^2_{45}X_{53}X_{32}-X_{56}X_{68}X_{84}X^2_{45}+X^1_{45}X_{56}X_{67}X_{74}+X_{19}X_{93}X_{31}-X_{29}X_{93}X_{32}-X_{49}X_{97}X_{74}+X_{49}X_{98}X_{84}$

(XIX) $-X_{19}X_{9,10}X_{10,1}-X_{2,10}X_{10,9}X_{92}+X_{7,10}X_{10,9}X_{97}+X_{89}X_{9,10}X_{10,8}+X_{14}X_{42}X_{2,10}X_{10,1}-X_{67}X_{7,10}X_{10,8}X_{86}+X_{35}X_{54}^{1}X_{43}-X_{46}X_{65}X_{54}^{1}-X_{23}X_{35}X_{54}^{2}X_{42}+X_{48}X_{86}X_{65}X_{54}^{2}-X_{14}X_{43}X_{31}+X_{46}X_{67}X_{74}+X_{19}X_{92}X_{23}X_{31}-X_{48}X_{89}X_{97}X_{74}$

(XX) $-X_{1,10}X_{10,2}X_{21}-X_{7,10}X_{10,8}X_{87}+X_{1,10}X_{10,8}X_{89}X_{91}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{35}X_{56}^{1}X_{63}+X_{45}X_{56}^{2}X_{64}+X_{56}^{1}X_{68}X_{87}X_{75}-X_{68}X_{89}X_{97}X_{75}X_{56}^{2}+X_{13}X_{35}X_{51}+X_{14}X_{42}X_{21}-X_{14}X_{45}X_{51}+X_{26}X_{63}X_{32}-X_{26}X_{64}X_{42}-X_{13}X_{32}X_{29}X_{91}$

(XXI) $X_{2,10}X_{10,1}X_{12}^{2}-X_{12}^{1}X_{29}X_{9,10}X_{10,1}-X_{2,10}X_{10,8}X_{82}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{24}X_{41}X_{12}^{2}+X_{12}^{1}X_{23}X_{31}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{67}X_{78}X_{86}+X_{29}X_{97}X_{78}X_{82}+X_{36}X_{67}X_{75}X_{53}-X_{46}X_{69}X_{97}X_{75}X_{54}$

(XXII) $X_{2,10}X_{10,1}X_{12}^{2}-X_{12}^{1}X_{29}X_{9,10}X_{10,1}-X_{2,10}X_{10,8}X_{82}+X_{69}X_{9,10}X_{10,8}X_{86}-X_{24}X_{45}X_{51}X_{12}^{2}+X_{12}^{1}X_{23}X_{35}X_{51}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}-X_{35}X_{57}X_{73}+X_{36}X_{67}X_{73}+X_{45}X_{57}X_{74}-X_{67}X_{78}X_{86}+X_{29}X_{97}X_{78}X_{82}-X_{46}X_{69}X_{97}X_{74}$

(XXIII) $-X_{19}X_{9,10}X_{10,1}-X_{2,10}X_{10,9}X_{92}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{89}X_{9,10}X_{10,8}+X_{13}X_{34}X_{42}X_{2,10}X_{10,1}-X_{13}X_{32}X_{21}+X_{19}X_{92}X_{21}+X_{26}X_{63}X_{32}-X_{26}X_{64}X_{42}-X_{34}X_{46}X_{63}+X_{46}X_{65}X_{54}+X_{48}X_{86}X_{64}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{48}X_{89}X_{97}X_{75}X_{54}$

(XXIV) $-X_{8,10}X_{10,9}X_{98}^{1}+X_{29}X_{98}^{2}X_{8,10}X_{10,2}-X_{1,10}X_{10,2}X_{21}+X_{1,10}X_{10,9}X_{91}-X_{79}X_{98}^{2}X_{87}+X_{69}X_{98}^{1}X_{87}X_{76}+X_{12}X_{23}X_{31}-X_{12}X_{29}X_{91}+X_{14}X_{42}X_{21}+X_{36}X_{65}X_{53}+X_{45}X_{56}X_{64}-X_{56}X_{69}X_{95}-X_{57}X_{76}X_{65}+X_{57}X_{79}X_{95}-X_{14}X_{45}X_{53}X_{31}-X_{23}X_{36}X_{64}X_{42}$

(XXV) $X_{14}X_{4,10}X_{10,1}-X_{19}X_{9,10}X_{10,1}-X_{24}X_{4,10}X_{10,2}-X_{7,10}X_{10,8}X_{87}+X_{89}X_{9,10}X_{10,8}+X_{29}X_{97}X_{7,10}X_{10,2}-X_{14}X_{43}^{1}X_{31}+X_{24}X_{43}^{2}X_{32}-X_{36}X_{64}X_{43}^{2}+X_{36}X_{65}X_{54}X_{43}^{1}+X_{19}X_{93}X_{31}-X_{29}X_{93}X_{32}+X_{48}X_{86}X_{64}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{48}X_{89}X_{97}X_{75}X_{54}$

(XXVI) $-X_{8,10}X_{10,9}X_{98}^{1}+X_{29}X_{98}^{2}X_{8,10}X_{10,2}+X_{1,10}X_{10,9}X_{91}-X_{1,10}X_{10,2}X_{24}X_{41}-X_{79}X_{98}^{2}X_{87}+X_{69}X_{98}^{1}X_{87}X_{76}+X_{12}X_{23}X_{31}-X_{12}X_{29}X_{91}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}+X_{36}X_{65}X_{53}-X_{57}X_{76}X_{65}+X_{57}X_{79}X_{95}-X_{46}X_{69}X_{95}X_{54}$

(XXVII) $-X_{19}X_{9,10}^{1}X_{10,1}+X_{29}X_{9,10}^{2}X_{10,2}-X_{79}X_{9,10}^{2}X_{10,7}+X_{78}X_{89}X_{9,10}^{1}X_{10,7}+X_{14}X_{4,10}X_{10,1}-X_{24}X_{4,10}X_{10,2}-X_{14}X_{43}^{1}X_{31}+X_{24}X_{43}^{2}X_{32}-X_{36}X_{64}X_{43}^{2}+X_{36}X_{65}X_{54}X_{43}^{1}+X_{19}X_{93}X_{31}-X_{29}X_{93}X_{32}+X_{48}X_{86}X_{64}+X_{57}X_{79}X_{95}-X_{48}X_{89}X_{95}X_{54}-X_{57}X_{78}X_{86}X_{65}$

(XXVIII) $X_{2,10}X_{10,1}X_{12}^{2}-X_{12}^{1}X_{29}X_{9,10}X_{10,1}-X_{2,10}X_{10,8}X_{82}+X_{69}X_{9,10}X_{10,8}X_{87}X_{76}-X_{24}X_{41}X_{12}^{2}+X_{12}^{1}X_{23}X_{31}-X_{15}X_{53}X_{31}+X_{15}X_{54}X_{41}-X_{23}X_{36}X_{62}+X_{24}X_{46}X_{62}+X_{29}X_{98}X_{82}+X_{36}X_{65}X_{53}-X_{57}X_{76}X_{65}+X_{57}X_{79}X_{95}-X_{79}X_{98}X_{87}-X_{46}X_{69}X_{95}X_{54}$

(XXIX) $-X_{1,10}X_{10,4}X_{41}+X_{1,10}X_{10,9}X_{91}+X_{2,10}X_{10,4}X_{42}-X_{8,10}X_{10,9}X_{98}-X_{2,10}X_{10,7}X_{79}X_{92}+X_{68}X_{8,10}X_{10,7}X_{76}+X_{13}X_{34}^{1}X_{41}-X_{23}X_{34}^{2}X_{42}+X_{53}X_{34}^{2}X_{45}^{2}-X_{34}^{1}X_{45}^{1}X_{53}+X_{45}^{1}X_{56}X_{64}-X_{56}X_{68}X_{84}X_{45}^{2}-X_{13}X_{39}X_{91}+X_{23}X_{39}X_{92}-X_{47}X_{76}X_{64}+X_{47}X_{79}X_{98}X_{84}$

(XXX) $-X_{1,10}X_{10,4}X_{41}+X_{2,10}X_{10,4}X_{42}+X_{6,10}X_{10,7}X_{76}-X_{6,10}X_{10,8}X_{86}+X_{1,10}X_{10,8}X_{89}X_{91}-X_{2,10}X_{10,7}X_{79}X_{92}+X_{13}X_{34}^{1}X_{41}-X_{23}X_{34}^{2}X_{42}-X_{47}X_{76}X_{64}^{2}+X_{48}X_{86}X_{64}^{1}+X_{53}X_{34}^{2}X_{45}^{2}-X_{56}X_{64}^{1}X_{45}^{2}-X_{34}^{1}X_{45}^{1}X_{53}+X_{45}^{1}X_{56}X_{64}^{2}-X_{13}X_{39}X_{91}+X_{23}X_{39}X_{92}+X_{47}X_{79}X_{94}-X_{48}X_{89}X_{94}$

(XXXI) $-X_{1,10}X_{10,2}X^1_{21} - X_{7,10}X_{10,8}X^1_{87} + X_{1,10}X_{10,8}X_{81} + X_{27}X_{7,10}X_{10,2} - X_{13}X_{32}X^2_{21} + X_{14}X_{42}X^1_{21} + X_{19}X_{92}X^2_{21} - X_{35}X^1_{56}X_{63} + X_{45}X^2_{56}X_{64} + X_{79}X_{98}X^2_{87} - X_{68}X^2_{87}X_{75}X^2_{56} + X^1_{56}X_{68}X^1_{87}X_{75} + X_{13}X_{35}X_{51} - X_{14}X_{45}X_{51} - X_{19}X_{98}X_{81} + X_{26}X_{63}X_{32} - X_{26}X_{64}X_{42} - X_{27}X_{79}X_{92}$

(XXXII) $X_{1,10}X^2_{10,9}X_{91} - X_{2,10}X^1_{10,9}X_{92} + X_{6,10}X^1_{10,9}X_{97}X_{76} - X_{6,10}X^2_{10,9}X_{98}X_{86} - X_{1,10}X_{10,4}X_{41} + X_{2,10}X_{10,4}X_{42} + X_{13}X^1_{34}X_{41} - X_{23}X^2_{34}X_{42} + X_{53}X^2_{34}X^2_{45} - X_{58}X_{84}X^2_{45} - X^1_{34}X^1_{45}X_{53} + X^1_{45}X_{57}X_{74} - X_{13}X_{39}X_{91} + X_{23}X_{39}X_{92} - X_{49}X_{97}X_{74} + X_{49}X_{98}X_{84} - X_{57}X_{76}X_{65} + X_{58}X_{86}X_{65}$

(XXXIII) $X_{1,10}X^2_{10,9}X_{91} - X_{2,10}X^1_{10,9}X_{92} + X_{7,10}X^1_{10,9}X_{97} - X_{8,10}X^2_{10,9}X_{98} - X_{1,10}X_{10,4}X_{41} + X_{2,10}X_{10,4}X_{42} - X_{67}X_{7,10}X_{10,6} + X_{68}X_{8,10}X_{10,6} + X_{13}X^1_{34}X_{41} - X_{23}X^2_{34}X_{42} + X_{53}X^2_{34}X^2_{45} - X^1_{34}X^1_{45}X_{53} - X_{56}X_{68}X_{84}X^2_{45} + X^1_{45}X_{56}X_{67}X_{74} - X_{13}X_{39}X_{91} + X_{23}X_{39}X_{92} - X_{49}X_{97}X_{74} + X_{49}X_{98}X_{84}$

1.39 $L^{5,6,1}$

(I) $-X_{12}X_{2,11}X_{11,1} - X_{1,10}X_{10,2}X_{21} + X_{89}X_{9,10}X_{10,8} + X_{8,11}X_{11,9}X_{98} + X_{1,10}X_{10,11}X_{11,1} + X_{2,11}X_{11,10}X_{10,2} - X_{8,11}X_{11,10}X_{10,8} - X_{9,10}X_{10,11}X_{11,9} + X_{12}X_{23}X_{31} + X_{14}X_{42}X_{21} - X_{14}X_{43}X_{31} + X_{35}X_{57}X_{73} - X_{36}X_{67}X_{73} - X_{57}X_{76}X_{65} + X_{67}X_{79}X_{96} + X_{68}X_{87}X_{76} - X_{68}X_{89}X_{96} - X_{79}X_{98}X_{87} - X_{23}X_{35}X_{54}X_{42} + X_{36}X_{65}X_{54}X_{43}$

1.40 $K^{2,5,1,4}$

(I) $-X_{1,10}X_{10,9}X_{91} + X_{7,10}X_{10,9}X_{97} + X_{89}X_{9,10}X_{10,8} + X_{12}X_{2,11}X_{11,9}X_{91} - X_{13}X_{32}X_{2,11}X_{11,1} - X_{57}X_{7,10}X_{10,8}X_{85} + X_{1,10}X_{10,11}X_{11,1} - X_{9,10}X_{10,11}X_{11,9} - X_{12}X_{24}X_{41} + X_{13}X_{34}X_{41} + X_{24}X_{43}X_{32} - X_{34}X_{46}X_{63} - X_{35}X_{54}X_{43} + X_{35}X_{57}X_{76}X_{63} + X_{46}X_{68}X_{85}X_{54} - X_{68}X_{89}X_{97}X_{76}$

(II) $-X_{13}X_{3,11}X_{11,1} - X_{1,10}X_{10,9}X_{91} - X_{1,11}X_{11,2}X_{21} + X_{1,11}X_{11,9}X_{91} + X_{23}X_{3,11}X_{11,2} + X_{7,10}X_{10,9}X_{97} + X_{89}X_{9,10}X_{10,8} - X_{57}X_{7,10}X_{10,8}X_{85} + X_{1,10}X_{10,11}X_{11,1} - X_{9,10}X_{10,11}X_{11,9} - X_{34}X_{46}X_{63} + X_{13}X_{34}X_{42}X_{21} - X_{23}X_{35}X_{54}X_{42} + X_{35}X_{57}X_{76}X_{63} + X_{46}X_{68}X_{85}X_{54} - X_{68}X_{89}X_{97}X_{76}$

(III) $-X_{13}X_{3,11}X_{11,1} - X_{1,10}X_{10,9}X_{91} - X_{1,11}X_{11,2}X_{21} + X_{1,11}X_{11,9}X_{91} + X_{23}X_{3,11}X_{11,2} + X_{7,10}X_{10,9}X_{97} + X_{89}X_{9,10}X_{10,8} - X_{45}X_{57}X_{7,10}X_{10,8}X_{84} + X_{1,10}X_{10,11}X_{11,1} - X_{9,10}X_{10,11}X_{11,9} - X_{23}X_{35}X_{52} + X_{24}X_{45}X_{52} - X_{24}X_{46}X_{62} + X_{35}X_{57}X_{73} - X_{36}X_{67}X_{73} - X_{78}X_{89}X_{97} + X_{13}X_{36}X_{62}X_{21} + X_{46}X_{67}X_{78}X_{84}$

(IV) $-X_{13}X_{3,11}X_{11,1} - X_{1,10}X_{10,9}X_{91} - X_{1,11}X_{11,2}X_{21} + X_{1,11}X_{11,9}X_{91} + X_{23}X_{3,11}X_{11,2} + X_{7,10}X_{10,9}X_{97} + X_{89}X_{9,10}X_{10,8} - X_{57}X_{7,10}X_{10,8}X_{86}X_{65} + X_{1,10}X_{10,11}X_{11,1} - X_{9,10}X_{10,11}X_{11,9} + X_{13}X_{32}X_{21} - X_{23}X_{35}X_{52} - X_{24}X_{43}X_{32} - X_{46}X_{67}X_{74} + X_{67}X_{78}X_{86} - X_{78}X_{89}X_{97} + X_{24}X_{46}X_{65}X_{52} + X_{35}X_{57}X_{74}X_{43}$

(V) $-X_{13}X_{3,11}X_{11,1} - X_{1,10}X_{10,9}X_{91} - X_{1,11}X_{11,2}X_{21} + X_{1,11}X_{11,9}X_{91} + X_{23}X_{3,11}X_{11,2} - X_{57}X_{7,10}X_{10,5} + X_{58}X_{8,10}X_{10,5} + X_{7,10}X_{10,9}X_{97} - X_{8,10}X_{10,11}X_{11,9}X_{98} + X_{1,10}X_{10,11}X_{11,1} - X_{34}X_{46}X_{63} + X_{46}X_{65}X_{54} - X_{58}X_{86}X_{65} - X_{69}X_{97}X_{76} + X_{69}X_{98}X_{86} + X_{13}X_{34}X_{42}X_{21} - X_{23}X_{35}X_{54}X_{42} + X_{35}X_{57}X_{76}X_{63}$

(VI) $X_{1,11}X_{11,2}X_{21}-X_{29}X_{9,11}X_{11,2}+X_{7,10}X_{10,9}X_{97}-X_{1,11}X_{11,10}X_{10,9}X_{91}-X_{57}X_{7,10}X_{10,8}X_{85}+X_{89}X_{9,11}X_{11,10}X_{10,8}-X_{12}X_{24}X_{41}+X_{12}X_{29}X_{91}-X_{13}X_{32}X_{21}+X_{24}X_{43}X_{32}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}+X_{13}X_{36}X_{64}X_{41}$

(VII) $-X_{13}X_{3,11}X_{11,1}-X_{1,10}X_{10,9}X_{91}-X_{1,11}X_{11,2}X_{21}+X_{1,11}X_{11,9}X_{91}+X_{23}X_{3,11}X_{11,2}-X_{7,10}X_{10,8}X_{87}+X_{7,10}X_{10,9}X_{97}+X_{89}X_{9,10}X_{10,8}+X_{1,10}X_{10,11}X_{11,1}-X_{9,10}X_{10,11}X_{11,9}-X_{23}X_{34}^{2}X_{42}+X_{45}X_{53}X_{34}^{2}-X_{34}^{1}X_{46}X_{63}+X_{13}X_{34}^{1}X_{42}X_{21}-X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}+X_{58}X_{87}X_{75}-X_{68}X_{89}X_{97}X_{76}$

1.41 $K^{4,4,2,4}$

(I) $X_{12}X_{2,11}X_{11,9}X_{91}-X_{14}X_{42}X_{2,11}X_{11,1}-X_{1,10}X_{10,7}X_{79}X_{91}+X_{58}X_{8,10}X_{10,7}X_{75}-X_{8,10}X_{10,11}X_{11,9}X_{98}+X_{1,10}X_{10,11}X_{11,1}-X_{12}X_{23}X_{31}+X_{14}X_{45}X_{53}X_{31}+X_{23}X_{36}X_{64}X_{42}-X_{36}X_{67}X_{75}X_{53}-X_{45}X_{58}X_{86}X_{64}+X_{67}X_{79}X_{98}X_{86}$

(II) $X_{1,11}X_{11,2}X_{21}-X_{29}X_{9,11}X_{11,2}-X_{8,10}X_{10,9}X_{98}+X_{58}X_{8,10}X_{10,7}X_{75}-X_{1,11}X_{11,10}X_{10,7}X_{79}X_{91}+X_{9,11}X_{11,10}X_{10,9}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{45}X_{53}X_{31}+X_{23}X_{36}X_{64}X_{42}-X_{36}X_{67}X_{75}X_{53}-X_{45}X_{58}X_{86}X_{64}+X_{67}X_{79}X_{98}X_{86}$

(III) $X_{1,11}X_{11,2}X_{21}-X_{7,10}X_{10,8}X_{87}-X_{1,11}X_{11,7}X_{79}X_{91}-X_{29}X_{9,10}X_{10,11}X_{11,2}+X_{67}X_{79}X_{9,10}X_{10,8}X_{86}+X_{7,10}X_{10,11}X_{11,7}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{58}X_{87}X_{75}+X_{14}X_{45}X_{53}X_{31}+X_{23}X_{36}X_{64}X_{42}-X_{36}X_{67}X_{75}X_{53}-X_{45}X_{58}X_{86}X_{64}$

(IV) $X_{17}X_{7,10}X_{10,1}-X_{29}X_{9,11}X_{11,2}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{7,10}X_{10,11}X_{11,8}X_{87}+X_{67}X_{79}X_{9,11}X_{11,8}X_{86}+X_{2,10}X_{10,11}X_{11,2}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{17}X_{79}X_{91}+X_{58}X_{87}X_{75}+X_{14}X_{45}X_{53}X_{31}+X_{23}X_{36}X_{64}X_{42}-X_{36}X_{67}X_{75}X_{53}-X_{45}X_{58}X_{86}X_{64}$

(V) $X_{17}X_{7,10}X_{10,1}-X_{29}X_{9,11}X_{11,2}-X_{14}X_{42}X_{2,10}X_{10,1}-X_{57}X_{7,10}X_{10,11}X_{11,8}X_{85}+X_{67}X_{79}X_{9,11}X_{11,8}X_{86}+X_{2,10}X_{10,11}X_{11,2}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{14}X_{43}X_{31}-X_{17}X_{79}X_{91}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}+X_{23}X_{36}X_{64}X_{42}$

(VI) $-X_{19}X_{9,11}X_{11,1}-X_{7,10}X_{10,8}X_{87}-X_{12}X_{2,11}X_{11,10}X_{10,1}+X_{13}X_{32}X_{2,11}X_{11,1}+X_{19}X_{97}X_{7,10}X_{10,1}+X_{89}X_{9,11}X_{11,10}X_{10,8}+X_{12}X_{24}X_{41}+X_{35}X_{56}X_{63}+X_{46}X_{65}X_{54}-X_{56}X_{67}X_{75}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}-X_{13}X_{35}X_{54}X_{41}-X_{24}X_{46}X_{63}X_{32}$

(VII) $-X_{14}X_{4,11}X_{11,1}-X_{1,11}X_{11,2}X_{21}+X_{1,11}X_{11,9}X_{91}+X_{24}X_{4,11}X_{11,2}+X_{78}X_{8,10}X_{10,7}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{8,10}X_{10,11}X_{11,9}X_{98}+X_{1,10}X_{10,11}X_{11,1}-X_{35}X_{54}X_{43}-X_{57}X_{78}X_{85}-X_{68}X_{87}X_{76}+X_{79}X_{98}X_{87}+X_{14}X_{43}X_{32}X_{21}-X_{24}X_{46}X_{63}X_{32}+X_{35}X_{57}X_{76}X_{63}+X_{46}X_{68}X_{85}X_{54}$

(VIII) $X_{17}X_{7,10}X_{10,1}-X_{23}X_{3,11}X_{11,2}+X_{24}X_{4,11}X_{11,2}-X_{7,10}X_{10,8}X_{87}-X_{8,11}X_{11,9}X_{98}+X_{13}X_{3,11}X_{11,9}X_{91}-X_{14}X_{4,11}X_{11,10}X_{10,1}+X_{8,11}X_{11,10}X_{10,8}-X_{13}X_{35}X_{51}+X_{14}X_{45}X_{51}-X_{17}X_{79}X_{91}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}+X_{23}X_{35}X_{56}X_{62}+X_{67}X_{79}X_{98}X_{86}-X_{24}X_{45}X_{58}X_{86}X_{62}$

(IX) $X_{1,11}X_{11,2}X_{21}-X_{57}X_{7,10}X_{10,5}+X_{58}X_{8,10}X_{10,5}-X_{68}X_{8,10}X_{10,6}-X_{1,11}X_{11,7}X_{79}X_{91}-X_{29}X_{9,10}X_{10,11}X_{11,2}+X_{67}X_{79}X_{9,10}X_{10,6}+X_{7,10}X_{10,11}X_{11,7}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}-X_{35}X_{58}X_{84}X_{43}+X_{23}X_{36}X_{68}X_{84}X_{42}$

(X) $X_{1,11}X_{11,2}X_{21}-X_{1,11}X_{11,7}X_{79}X_{91}-X_{29}X_{9,10}X_{10,11}X_{11,2}-X_{57}X_{7,10}X_{10,8}X_{85}+X_{67}X_{79}X_{9,10}X_{10,8}X_{86}+$
$X_{7,10}X_{10,11}X_{11,7}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}-X_{35}X_{54}X_{43}+$
$X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}+X_{23}X_{36}X_{64}X_{42}$

(XI) $X_{78}X_{8,10}X_{10,7}+X_{12}X_{2,11}X_{11,9}X_{91}-X_{14}X_{42}X_{2,11}X_{11,1}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{8,10}X_{10,11}X_{11,9}X_{98}+$
$X_{1,10}X_{10,11}X_{11,1}-X_{12}X_{23}X_{31}+X_{14}X_{43}X_{31}-X_{35}X_{54}X_{43}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+$
$X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}-X_{57}X_{78}X_{85}+X_{23}X_{36}X_{64}X_{42}+X_{67}X_{79}X_{98}X_{86}$

(XII) $X_{17}X_{7,10}X_{10,1}-X_{1,11}X_{11,2}X_{21}+X_{1,11}X_{11,9}X_{91}-X_{7,10}X_{10,8}X_{87}-X_{8,11}X_{11,9}X_{98}-$
$X_{14}X_{4,11}X_{11,10}X_{10,1}+X_{23}X_{34}X_{4,11}X_{11,2}+X_{8,11}X_{11,10}X_{10,8}-X_{17}X_{79}X_{91}-X_{23}X_{35}X_{52}+$
$X_{35}X_{56}X_{63}-X_{56}X_{67}X_{75}+X_{58}X_{87}X_{75}+X_{14}X_{45}X_{52}X_{21}+X_{67}X_{79}X_{98}X_{86}-X_{34}X_{45}X_{58}X_{86}X_{63}$

(XIII) $X_{12}X_{2,11}X_{11,9}X_{91}-X_{14}X_{42}X_{2,11}X_{11,1}-X_{1,10}X_{10,7}X_{79}X_{91}+X_{58}X_{8,10}X_{10,7}X_{75}-$
$X_{8,10}X_{10,11}X_{11,9}X_{98}+X_{1,10}X_{10,11}X_{11,1}-X_{12}X_{23}X_{31}+X_{23}X_{34}X_{42}-X_{34}X_{46}X_{63}-$
$X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}-X_{68}X_{87}X_{76}+X_{79}X_{98}X_{87}+$
$X_{14}X_{45}X_{53}X_{31}$

(XIV) $-X_{7,10}X_{10,8}X_{87}+X_{1,11}X_{11,2}X_{24}X_{41}-X_{1,11}X_{11,7}X_{79}X_{91}-X_{29}X_{9,10}X_{10,11}X_{11,2}+$
$X_{67}X_{79}X_{9,10}X_{10,8}X_{86}+X_{7,10}X_{10,11}X_{11,7}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}+X_{15}X_{53}X_{31}-$
$X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-$
$X_{36}X_{67}X_{75}X_{53}$

(XV) $-X_{1,11}X_{11,2}X_{21}+X_{1,11}X_{11,9}X_{91}+X_{23}X_{3,11}X_{11,2}-X_{3,11}X_{11,4}X_{43}-X_{1,10}X_{10,7}X_{79}X_{91}+$
$X_{1,10}X_{10,11}X_{11,4}X_{41}+X_{58}X_{8,10}X_{10,7}X_{75}-X_{8,10}X_{10,11}X_{11,9}X_{98}-X_{23}X_{35}^{1}X_{52}+X_{43}X_{35}^{2}X_{54}+$
$X_{35}^{1}X_{56}X_{63}-X_{58}X_{86}X_{63}X_{35}^{2}+X_{15}X_{52}X_{21}-X_{15}X_{54}X_{41}-X_{56}X_{67}X_{75}+X_{67}X_{79}X_{98}X_{86}$

(XVI) $X_{1,11}X_{11,2}X_{21}-X_{29}X_{9,11}X_{11,2}+X_{78}X_{8,10}X_{10,7}-X_{8,10}X_{10,9}X_{98}-X_{1,11}X_{11,10}X_{10,7}X_{79}X_{91}+$
$X_{9,11}X_{11,10}X_{10,9}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}+X_{23}X_{34}X_{42}-$
$X_{34}X_{46}X_{63}-X_{35}X_{54}X_{43}-X_{57}X_{78}X_{85}-X_{68}X_{87}X_{76}+X_{79}X_{98}X_{87}+X_{35}X_{57}X_{76}X_{63}+$
$X_{46}X_{68}X_{85}X_{54}$

(XVII) $X_{1,11}X_{11,2}X_{21}-X_{29}X_{9,11}X_{11,2}-X_{8,10}X_{10,9}X_{98}+X_{58}X_{8,10}X_{10,7}X_{75}-X_{1,11}X_{11,10}X_{10,7}X_{79}X_{91}+$
$X_{9,11}X_{11,10}X_{10,9}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{23}X_{34}X_{42}-X_{34}X_{46}X_{63}-$
$X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}-X_{68}X_{87}X_{76}+X_{79}X_{98}X_{87}+$
$X_{14}X_{45}X_{53}X_{31}$

(XVIII) $X_{1,11}X_{11,2}X_{21}-X_{29}X_{9,11}X_{11,2}+X_{78}X_{8,10}X_{10,7}-X_{8,10}X_{10,9}X_{98}-X_{1,11}X_{11,10}X_{10,7}X_{79}X_{91}+$
$X_{9,11}X_{11,10}X_{10,9}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{14}X_{42}X_{21}+X_{14}X_{43}X_{31}-X_{35}X_{54}X_{43}+$
$X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}-X_{57}X_{78}X_{85}+X_{23}X_{36}X_{64}X_{42}+$
$X_{67}X_{79}X_{98}X_{86}$

(XIX) $X_{12}^{1}X_{2,11}X_{11,1}-X_{2,11}X_{11,10}X_{10,1}X_{12}^{2}-X_{19}X_{9,11}X_{11,1}-X_{7,10}X_{10,8}X_{87}+X_{19}X_{97}X_{7,10}X_{10,1}+$
$X_{89}X_{9,11}X_{11,10}X_{10,8}+X_{24}X_{41}X_{12}^{2}-X_{12}^{1}X_{23}X_{31}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-$
$X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}-$
$X_{36}X_{67}X_{75}X_{53}$

(XX) $-X_{14}X_{4,11}X_{11,1}-X_{1,11}X_{11,2}X_{21}+X_{1,11}X_{11,9}X_{91}+X_{24}X_{4,11}X_{11,2}+X_{78}X_{8,10}X_{10,7}-X_{1,10}X_{10,7}X_{79}X_{91}-X_{8,10}X_{10,11}X_{11,9}X_{98}+X_{1,10}X_{10,11}X_{11,1}-X_{24}X^1_{43}X_{32}-X_{35}X_{54}X^2_{43}+X_{36}X_{64}X^1_{43}+X_{14}X^2_{43}X_{32}X_{21}+X_{35}X_{57}X_{73}-X_{36}X_{67}X_{73}+X_{48}X_{85}X_{54}-X_{48}X_{86}X_{64}-X_{57}X_{78}X_{85}+X_{67}X_{79}X_{98}X_{86}$

(XXI) $X_{12}X_{2,11}X^2_{11,1}-X_{19}X_{9,11}X^2_{11,1}-X_{14}X_{42}X_{2,11}X^1_{11,1}-X_{1,10}X_{10,7}X_{71}+X_{89}X_{9,11}X_{11,8}+X_{58}X_{8,10}X_{10,7}X_{75}+X_{1,10}X_{10,11}X^1_{11,1}-X_{8,10}X_{10,11}X_{11,8}-X_{12}X_{23}X_{31}+X_{19}X_{97}X_{71}+X_{23}X_{34}X_{42}-X_{34}X_{46}X_{63}-X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}+X_{14}X_{45}X_{53}X_{31}-X_{68}X_{89}X_{97}X_{76}$

(XXII) $-X_{2,10}X_{10,1}X^2_{12}+X_{17}X_{7,10}X_{10,1}-X_{29}X_{9,11}X_{11,2}-X_{7,10}X_{10,11}X_{11,8}X_{87}+X_{67}X_{79}X_{9,11}X_{11,8}X_{86}+X_{2,10}X_{10,11}X_{11,2}+X_{24}X_{41}X^2_{12}-X^1_{12}X_{23}X_{31}+X^1_{12}X_{29}X_{91}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}-X_{17}X_{79}X_{91}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{58}X_{86}X_{65}+X_{58}X_{87}X_{75}-X_{36}X_{67}X_{75}X_{53}$

(XXIII) $X_{79}X_{9,11}X_{11,8}X^1_{87}-X_{7,10}X_{10,11}X_{11,8}X^2_{87}+X_{17}X_{7,10}X_{10,1}-X_{29}X_{9,11}X_{11,2}-X_{14}X_{42}X_{2,10}X_{10,1}+X_{2,10}X_{10,11}X_{11,2}+X_{58}X^2_{87}X_{75}-X_{68}X^1_{87}X_{76}-X_{12}X_{23}X_{31}+X_{12}X_{29}X_{91}-X_{17}X_{79}X_{91}+X_{23}X_{34}X_{42}-X_{34}X_{46}X_{63}-X_{37}X_{75}X_{53}+X_{37}X_{76}X_{63}-X_{45}X_{58}X_{84}+X_{46}X_{68}X_{84}+X_{14}X_{45}X_{53}X_{31}$

(XXIV) $-X_{19}X_{9,11}X^1_{11,1}-X_{2,11}X^2_{11,1}X^2_{12}+X^1_{12}X_{2,11}X^1_{11,1}-X_{1,10}X_{10,7}X_{71}+X_{89}X_{9,11}X_{11,8}+X_{58}X_{8,10}X_{10,7}X_{75}+X_{1,10}X_{10,11}X^2_{11,1}-X_{8,10}X_{10,11}X_{11,8}+X_{24}X_{41}X^2_{12}-X^1_{12}X_{23}X_{31}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{19}X_{97}X_{71}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}+X_{46}X_{65}X_{54}-X_{58}X_{86}X_{65}+X_{67}X_{78}X_{86}-X_{78}X_{89}X_{97}-X_{36}X_{67}X_{75}X_{53}$

(XXV) $-X_{2,11}X_{11,1}X^2_{12}+X^1_{12}X_{2,11}X_{11,9}X_{91}-X_{1,10}X_{10,9}X_{91}-X_{57}X_{7,10}X_{10,5}+X_{58}X_{8,10}X_{10,5}+X_{7,10}X_{10,9}X_{97}-X_{8,10}X_{10,11}X_{11,9}X_{98}+X_{1,10}X_{10,11}X_{11,1}+X_{24}X_{41}X^2_{12}-X_{36}X^2_{65}X_{53}+X_{46}X^1_{65}X_{54}+X_{57}X_{76}X^2_{65}-X_{58}X_{86}X^1_{65}-X^1_{12}X_{23}X_{31}+X_{15}X_{53}X_{31}-X_{15}X_{54}X_{41}+X_{23}X_{36}X_{62}-X_{24}X_{46}X_{62}-X_{69}X_{97}X_{76}+X_{69}X_{98}X_{86}$

1.42 $\mathbb{C}^3/(\mathbb{Z}_2\times\mathbb{Z}_6)$ $(1,0,1)(1,0,5)$

(I) $X_{12}X_{2,10}X_{10,1}-X_{19}X_{9,10}X_{10,1}-X_{2,10}X_{10,9}X_{92}-X_{34}X_{4,10}X_{10,3}+X_{39}X_{9,10}X_{10,3}+X_{4,10}X_{10,9}X_{94}-X_{56}X_{6,11}X_{11,5}-X_{5,12}X_{12,6}X_{65}+X_{78}X_{8,11}X_{11,7}+X_{7,12}X_{12,8}X_{87}+X_{5,12}X_{12,11}X_{11,5}+X_{6,11}X_{11,12}X_{12,6}-X_{7,12}X_{12,11}X_{11,7}-X_{8,11}X_{11,12}X_{12,8}-X_{12}X_{25}X_{51}-X_{16}X_{62}X_{21}+X_{16}X_{65}X_{51}+X_{19}X_{92}X_{21}+X_{25}X_{56}X_{62}+X_{34}X_{48}X_{83}+X_{37}X_{74}X_{43}-X_{37}X_{78}X_{83}-X_{39}X_{94}X_{43}-X_{48}X_{87}X_{74}$

1.43 $\mathbf{SPP}/(\mathbb{Z}_2\times\mathbb{Z}_2)$ $(1,0,0,1)(0,1,1,0)$

(I) $X_{7,10}X_{10,8}X_{87}-X_{14}X_{42}X_{2,11}X_{11,1}-X_{1,12}X_{12,2}X_{23}X_{31}-X_{7,10}X_{10,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,10}X_{10,8}+X_{1,12}X_{12,10}X_{10,11}X_{11,1}+X_{2,11}X_{11,9}X_{9,12}X_{12,2}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{67}X_{75}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{14}X_{46}X_{63}X_{31}+X_{23}X_{35}X_{54}X_{42}$

(II) $-X_{12}X_{2,11}X_{11,1}-X_{1,12}X_{12,2}X_{21}+X_{7,10}X_{10,8}X_{87}-X_{7,10}X_{10,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,10}X_{10,8}+X_{1,12}X_{12,10}X_{10,11}X_{11,1}+X_{2,11}X_{11,9}X_{9,12}X_{12,2}+X_{12}X_{24}X_{41}+X_{13}X_{32}X_{21}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}-X_{13}X_{36}X_{64}X_{41}-X_{24}X_{45}X_{53}X_{32}+X_{36}X_{67}X_{75}X_{53}+X_{45}X_{58}X_{86}X_{64}$

(III) $-X_{12}X_{2,11}X_{11,1}+X_{7,10}X_{10,8}X_{87}-X_{1,12}X_{12,2}X_{23}X_{31}-X_{7,10}X_{10,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,10}X_{10,8}+X_{1,12}X_{12,10}X_{10,11}X_{11,1}+X_{2,11}X_{11,9}X_{9,12}X_{12,2}+X_{12}X_{24}X_{41}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{56}X_{63}+X_{56}X_{67}X_{75}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{45}X_{58}X_{86}X_{64}$

(IV) $X_{7,10}X_{10,8}X_{87}+X_{13}X_{32}X_{2,12}X_{12,1}+X_{1,11}X_{11,2}X_{24}X_{41}-X_{7,10}X_{10,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,10}X_{10,8}-X_{1,11}X_{11,12}X_{12,1}-X_{2,12}X_{12,11}X_{11,2}+X_{9,12}X_{12,11}X_{11,9}+X_{10,11}X_{11,12}X_{12,10}-X_{13}X_{34}X_{41}-X_{24}X_{43}X_{32}+X_{34}X_{46}X_{63}+X_{35}X_{54}X_{43}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{67}X_{75}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}$

(V) $-X_{29}X_{9,11}X_{11,2}+X_{29}X_{9,12}X_{12,2}+X_{7,10}X_{10,8}X_{87}-X_{7,10}X_{10,9}X_{97}+X_{1,11}X_{11,2}X_{24}X_{41}-X_{1,12}X_{12,2}X_{23}X_{31}-X_{89}X_{9,12}X_{12,10}X_{10,8}-X_{1,11}X_{11,10}X_{10,1}+X_{1,12}X_{12,10}X_{10,1}+X_{9,11}X_{11,10}X_{10,9}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{56}X_{63}+X_{56}X_{67}X_{75}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{45}X_{58}X_{86}X_{64}$

(VI) $X_{13}X_{3,12}X_{12,1}+X_{1,11}X_{11,4}X_{41}-X_{23}X_{3,12}X_{12,2}-X_{2,11}X_{11,4}X_{42}+X_{7,10}X_{10,8}X_{87}-X_{7,10}X_{10,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,10}X_{10,8}-X_{1,11}X_{11,12}X_{12,1}+X_{10,11}X_{11,12}X_{12,10}+X_{2,11}X_{11,9}X_{9,12}X_{12,2}-X_{13}X_{34}X_{41}+X_{34}X_{46}X_{63}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{67}X_{75}+X_{58}X_{86}X_{65}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{23}X_{35}X_{54}X_{42}$

(VII) $-X_{12}X_{2,11}X_{11,1}-X_{7,11}X_{11,9}X_{97}-X_{89}X_{9,12}X_{12,8}-X_{1,12}X_{12,2}X_{23}X_{31}-X_{58}X_{8,10}X_{10,7}X_{75}+X_{1,12}X_{12,11}X_{11,1}+X_{7,11}X_{11,10}X_{10,7}+X_{8,10}X_{10,12}X_{12,8}-X_{10,12}X_{12,11}X_{11,10}+X_{2,11}X_{11,9}X_{9,12}X_{12,2}+X_{12}X_{24}X_{41}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{56}X_{63}+X_{56}X_{67}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{45}X_{58}X_{86}X_{64}$

(VIII) $X_{2,12}X_{12,1}X_{12}^2-X_{12}^1X_{2,11}X_{11,1}+X_{2,11}X_{11,9}X_{92}-X_{2,12}X_{12,9}X_{92}+X_{7,10}X_{10,8}X_{87}-X_{89}X_{9,10}X_{10,8}-X_{7,10}X_{10,11}X_{11,9}X_{97}+X_{1,10}X_{10,11}X_{11,1}-X_{1,10}X_{10,12}X_{12,1}+X_{9,10}X_{10,12}X_{12,9}-X_{23}X_{31}X_{12}^2+X_{12}^1X_{24}X_{41}+X_{16}X_{63}X_{31}-X_{16}X_{64}X_{41}+X_{23}X_{35}X_{52}-X_{24}X_{45}X_{52}-X_{35}X_{56}X_{63}+X_{56}X_{67}X_{75}-X_{58}X_{87}X_{75}-X_{67}X_{78}X_{86}+X_{78}X_{89}X_{97}+X_{45}X_{58}X_{86}X_{64}$

1.44 $L^{1,5,1}/\mathbb{Z}_2\ (1,0,0,1)$

(I) $X_{7,10}X_{10,8}X_{87}-X_{7,10}X_{10,9}X_{97}-X_{89}X_{9,10}X_{10,8}+X_{14}X_{42}X_{2,11}X_{11,1}+X_{1,12}X_{12,2}X_{23}X_{31}+X_{9,10}X_{10,12}X_{12,9}+X_{9,11}X_{11,10}X_{10,9}-X_{1,12}X_{12,9}X_{9,11}X_{11,1}-X_{2,11}X_{11,10}X_{10,12}X_{12,2}-X_{14}X_{43}X_{31}-X_{23}X_{34}X_{42}+X_{34}X_{46}X_{63}+X_{35}X_{54}X_{43}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{68}X_{85}+X_{57}X_{76}X_{65}-X_{57}X_{78}X_{85}-X_{68}X_{87}X_{76}+X_{78}X_{89}X_{97}$

(II) $-X_{13}X_{3,12}X_{12,1}-X_{1,11}X_{11,4}X_{41}+X_{23}X_{3,12}X_{12,2}+X_{2,11}X_{11,4}X_{42}+X_{7,10}X_{10,8}X_{87}-X_{7,10}X_{10,9}X_{97}-X_{89}X_{9,10}X_{10,8}+X_{1,11}X_{11,12}X_{12,1}+X_{9,10}X_{10,12}X_{12,9}+X_{9,11}X_{11,10}X_{10,9}-X_{9,11}X_{11,12}X_{12,9}-X_{2,11}X_{11,10}X_{10,12}X_{12,2}-X_{23}X_{34}X_{42}+X_{34}X_{46}X_{63}-X_{35}X_{56}X_{63}-X_{46}X_{65}X_{54}+X_{56}X_{68}X_{85}+X_{57}X_{76}X_{65}-X_{57}X_{78}X_{85}-X_{68}X_{87}X_{76}+X_{78}X_{89}X_{97}+X_{13}X_{35}X_{54}X_{41}$

1.45 $\mathcal{C}/(\mathbb{Z}_3\times\mathbb{Z}_2)\ (1,0,0,2)(0,1,1,0)$

(I) $-X_{13}X_{34}X_{4,12}X_{12,1}-X_{1,11}X_{11,4}X_{42}X_{21}+X_{58}X_{8,10}X_{10,7}X_{75}-X_{79}X_{9,11}X_{11,10}X_{10,7}-X_{8,10}X_{10,12}X_{12,9}X_{98}+X_{1,11}X_{11,10}X_{10,12}X_{12,1}+X_{4,12}X_{12,9}X_{9,11}X_{11,4}+X_{13}X_{35}X_{52}X_{21}+X_{26}X_{63}X_{34}X_{42}-X_{26}X_{67}X_{75}X_{52}-X_{35}X_{58}X_{86}X_{63}+X_{67}X_{79}X_{98}X_{86}$

(II) $X_{12}X_{24}X_{4,11}X_{11,1} + X_{1,12}X_{12,4}X_{43}X_{31} + X_{58}X_{8,10}X_{10,7}X_{75} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,9}X_{98} - X_{1,12}X_{12,11}X_{11,1} - X_{4,11}X_{11,12}X_{12,4} + X_{9,11}X_{11,12}X_{12,9} + X_{10,12}X_{12,11}X_{11,10} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} - X_{24}X_{43}X_{32} + X_{26}X_{63}X_{32} - X_{26}X_{67}X_{75}X_{52} - X_{35}X_{58}X_{86}X_{63} + X_{67}X_{79}X_{98}X_{86}$

(III) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} + X_{58}X_{8,10}X_{10,7}X_{75} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,9}X_{98} - X_{1,12}X_{12,11}X_{11,1} + X_{10,12}X_{12,11}X_{11,10} + X_{4,12}X_{12,9}X_{9,11}X_{11,4} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} + X_{26}X_{63}X_{34}X_{42} - X_{26}X_{67}X_{75}X_{52} - X_{35}X_{58}X_{86}X_{63} + X_{67}X_{79}X_{98}X_{86}$

(IV) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} - X_{79}X_{9,11}X_{11,7} - X_{8,12}X_{12,9}X_{98} - X_{57}X_{7,10}X_{10,8}X_{85} + X_{7,10}X_{10,11}X_{11,7} + X_{8,12}X_{12,10}X_{10,8} - X_{1,12}X_{12,10}X_{10,11}X_{11,1} + X_{4,12}X_{12,9}X_{9,11}X_{11,4} + X_{25}X_{57}X_{72} - X_{26}X_{67}X_{72} + X_{38}X_{85}X_{53} - X_{38}X_{86}X_{63} - X_{12}X_{25}X_{53}X_{31} + X_{26}X_{63}X_{34}X_{42} + X_{67}X_{79}X_{98}X_{86}$

(V) $X_{12}X_{24}X_{4,11}X_{11,1} + X_{1,12}X_{12,4}X_{43}X_{31} + X_{58}X_{8,10}X_{10,7}X_{75} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,9}X_{98} - X_{1,12}X_{12,11}X_{11,1} - X_{4,11}X_{11,12}X_{12,4} + X_{9,11}X_{11,12}X_{12,9} + X_{10,12}X_{12,11}X_{11,10} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} - X_{27}X_{75}X_{52} + X_{27}X_{76}X_{62} - X_{35}X_{58}X_{83} + X_{36}X_{68}X_{83} - X_{68}X_{87}X_{76} + X_{79}X_{98}X_{87} - X_{24}X_{43}X_{36}X_{62}$

(VI) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} + X_{78}X_{8,10}X_{10,7} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,9}X_{98} - X_{1,12}X_{12,11}X_{11,1} + X_{10,12}X_{12,11}X_{11,10} + X_{4,12}X_{12,9}X_{9,11}X_{11,4} + X_{25}X_{57}X_{72} - X_{26}X_{67}X_{72} + X_{38}X_{85}X_{53} - X_{38}X_{86}X_{63} - X_{57}X_{78}X_{85} - X_{12}X_{25}X_{53}X_{31} + X_{26}X_{63}X_{34}X_{42} + X_{67}X_{79}X_{98}X_{86}$

(VII) $X_{7,10}X_{10,9}X_{97} + X_{89}X_{9,10}X_{10,8} + X_{12}X_{24}X_{4,11}X_{11,1} + X_{1,12}X_{12,4}X_{43}X_{31} - X_{57}X_{7,10}X_{10,8}X_{85} - X_{1,12}X_{12,11}X_{11,1} - X_{4,11}X_{11,12}X_{12,4} - X_{9,10}X_{10,12}X_{12,9} - X_{9,11}X_{11,10}X_{10,9} + X_{9,11}X_{11,12}X_{12,9} + X_{10,12}X_{12,11}X_{11,10} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} - X_{24}X_{43}X_{32} + X_{26}X_{63}X_{32} - X_{26}X_{65}X_{52} - X_{35}X_{56}X_{63} + X_{56}X_{68}X_{85} + X_{57}X_{76}X_{65} - X_{68}X_{89}X_{97}X_{76}$

(VIII) $X_{5,10}X_{10,7}X_{75} - X_{5,10}X_{10,8}X_{85} + X_{89}X_{9,10}X_{10,8} + X_{12}X_{24}X_{4,11}X_{11,1} + X_{1,12}X_{12,4}X_{43}X_{31} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{1,12}X_{12,11}X_{11,1} - X_{4,11}X_{11,12}X_{12,4} - X_{9,10}X_{10,12}X_{12,9} + X_{9,11}X_{11,12}X_{12,9} + X_{10,12}X_{12,11}X_{11,10} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} - X_{24}X_{43}X_{32} + X_{26}X_{63}X_{32} - X_{35}X_{56}X_{63} + X_{56}X_{68}X_{85} + X_{67}X_{79}X_{96} - X_{68}X_{89}X_{96} - X_{26}X_{67}X_{75}X_{52}$

(IX) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} + X_{5,10}X_{10,7}X_{75} - X_{5,10}X_{10,8}X_{85} + X_{89}X_{9,10}X_{10,8} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{1,12}X_{12,11}X_{11,1} - X_{9,10}X_{10,12}X_{12,9} + X_{10,12}X_{12,11}X_{11,10} + X_{4,12}X_{12,9}X_{9,11}X_{11,4} - X_{12}X_{23}X_{31} + X_{23}X_{35}X_{52} - X_{35}X_{56}X_{63} + X_{56}X_{68}X_{85} + X_{67}X_{79}X_{96} - X_{68}X_{89}X_{96} + X_{26}X_{63}X_{34}X_{42} - X_{26}X_{67}X_{75}X_{52}$

(X) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} + X_{58}X_{8,10}X_{10,7}X_{75} - X_{79}X_{9,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,9}X_{98} - X_{1,12}X_{12,11}X_{11,1} + X_{10,12}X_{12,11}X_{11,10} + X_{4,12}X_{12,9}X_{9,11}X_{11,4} - X_{12}X^{1}_{23}X_{31} + X_{34}X_{42}X^{2}_{23} - X_{36}X_{62}X^{2}_{23} + X^{1}_{23}X_{35}X_{52} - X_{27}X_{75}X_{52} + X_{27}X_{76}X_{62} - X_{35}X_{58}X_{83} + X_{36}X_{68}X_{83} - X_{68}X_{87}X_{76} + X_{79}X_{98}X_{87}$

(XI) $X_{12}X_{2,11}X_{11,1} + X_{1,12}X_{12,3}X_{31} - X_{2,11}X_{11,4}X_{42} - X_{34}X_{4,12}X_{12,3} + X_{7,11}X_{11,9}X_{97} + X_{89}X_{9,12}X_{12,8} + X_{58}X_{8,10}X_{10,7}X_{75} - X_{1,12}X^{1}_{12,11}X_{11,1} + X_{4,12}X^{2}_{12,11}X_{11,4} - X_{9,12}X^{2}_{12,11}X_{11,9} +$

$X_{10,12}X^1_{12,11}X_{11,10} - X_{7,11}X_{11,10}X_{10,7} - X_{8,10}X_{10,12}X_{12,8} - X_{12}X^1_{23}X_{31} + X_{34}X_{42}X^2_{23} - X_{36}X_{62}X^2_{23} + X^1_{23}X_{35}X_{52} - X_{27}X_{75}X_{52} + X_{27}X_{76}X_{62} - X_{35}X_{58}X_{83} + X_{36}X_{68}X_{83} - X_{68}X_{89}X_{97}X_{76}$

Acknowledgments

SC is supported in part by STFC through grant ST/T000708/1. JS is supported by Fundação para a Ciência e a Tecnologia I.P. through grant SFRH/BD/136280/2018.

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