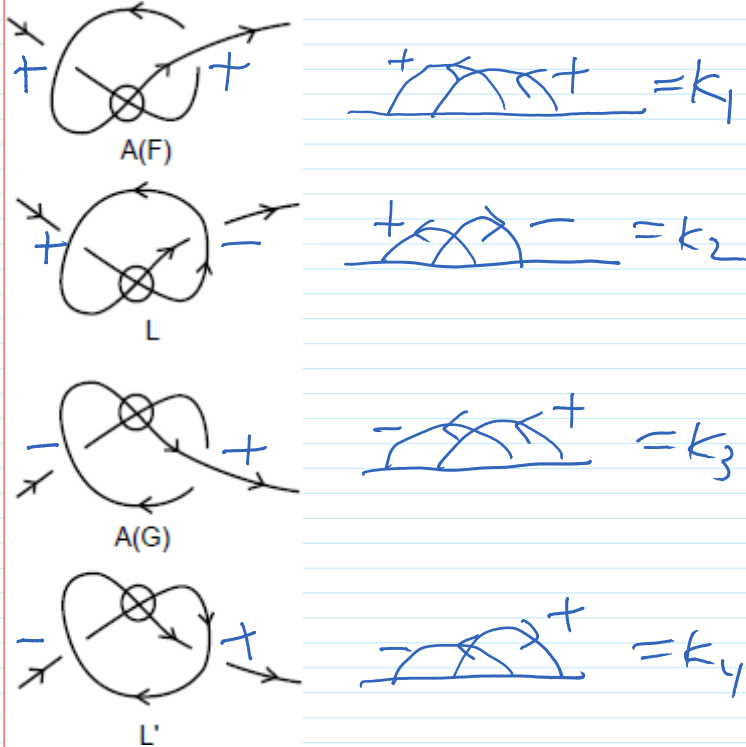


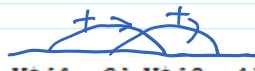
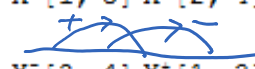

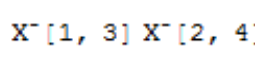
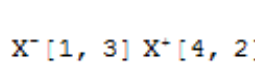
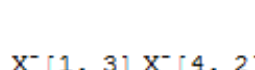

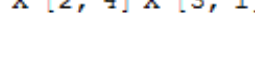
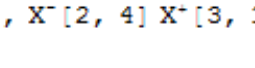
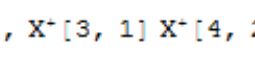
V2X Analysis

November-23-14 12:47 PM

From Kauffman's 1101.0665-IntroToVirtualKnotTheory:



From 2014-11/V2X.nb:

- 
 $\{1, X^+[1, 3] X^+[2, 4]\} \rightarrow E_s[\langle 1 \rightarrow LS[2 \bar{1}, 0, -\overline{11q} + \overline{1q}q, \dots] \rangle, CWS[2 \bar{1}, 0, \overline{11q} + \overline{1q}q, \dots]]$
- 
 $\{2, X^-[2, 4] X^-[1, 3]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[0, 0, 0, \dots]]$ *0 by R2*
- 
 $\{3, X^+[1, 3] X^+[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[2 \bar{1}, 0, -\overline{11q} + \overline{1q}q, \dots] \rangle, CWS[\bar{1}, \overline{11} + \overline{1q}, \frac{\overline{11q}}{2} + \frac{\overline{1qq}}{2}, \dots]]$
- $\{4, X^-[4, 2] X^-[1, 3]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[\bar{1}, -\overline{11} - \overline{1q}, \overline{111} + \frac{3\overline{11q}}{2} + \frac{\overline{1qq}}{2}, \dots]]$
- $\{5, X^-[1, 3] X^-[2, 4]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[0, 0, 0, \dots]]$
- 
 $\{6, X^+[1, 3] X^+[2, 4]\} \rightarrow E_s[\langle 1 \rightarrow LS[-2 \bar{1}, 0, \overline{11q} - \overline{1q}q, \dots] \rangle, CWS[-2 \bar{1}, 0, -\overline{11q} - \overline{1q}q, \dots]]$
- 
 $\{7, X^-[1, 3] X^+[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[-\bar{1}, -\overline{11} - \overline{1q}, -\overline{111} - \frac{3\overline{11q}}{2} - \frac{\overline{1qq}}{2}, \dots]]$
- 
 $\{8, X^-[1, 3] X^-[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[-2 \bar{1}, 0, \overline{11q} - \overline{1q}q, \dots] \rangle, CWS[-\bar{1}, \overline{11} + \overline{1q}, -\frac{\overline{11q}}{2} - \frac{\overline{1qq}}{2}, \dots]]$
- 
 $\{9, X^+[2, 4] X^+[3, 1]\} \rightarrow E_s[\langle 1 \rightarrow LS[2 \bar{1}, 0, -\overline{11q} + \overline{1q}q, \dots] \rangle, CWS[\bar{1}, -\overline{1q}, \frac{\overline{11q}}{2} + \frac{\overline{1qq}}{2}, \dots]]$
- 
 $\{10, X^-[2, 4] X^-[3, 1]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[-\bar{1}, \overline{1q}, \frac{\overline{11q}}{2} - \frac{\overline{1qq}}{2}, \dots]]$ *k2*
- 
 $\{11, X^+[3, 1] X^+[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[2 \bar{1}, 0, -\overline{11q} + \overline{1q}q, \dots] \rangle, CWS[0, 0, 0, \dots]]$ *k1*
- 
 $\{12, X^-[4, 2] X^-[3, 1]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[0, 0, 0, \dots]]$

$$\{12, X^{-}[4, 2] X^{-}[3, 1]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[0, 0, 0, \dots]]$$

$$\{13, X^{-}[3, 1] X^{-}[2, 4]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[\overline{1}, \overline{1q}, -\frac{\overline{11q}}{2} + \frac{\overline{1qq}}{2}, \dots]] \quad Ky$$

$$\{14, X^{-}[2, 4] X^{-}[3, 1]\} \rightarrow E_s[\langle 1 \rightarrow LS[-2 \overline{1}, 0, \overline{11q} - \overline{1qq}, \dots] \rangle, CWS[-\overline{1}, -\overline{1q}, -\frac{\overline{11q}}{2} - \frac{\overline{1qq}}{2}, \dots]]$$

$$\{15, X^{-}[3, 1] X^{-}[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[0, 0, 0, \dots] \rangle, CWS[0, 0, 0, \dots]] \quad Kz$$

$$\{16, X^{-}[3, 1] X^{-}[4, 2]\} \rightarrow E_s[\langle 1 \rightarrow LS[-2 \overline{1}, 0, \overline{11q} - \overline{1qq}, \dots] \rangle, CWS[0, 0, 0, \dots]]$$