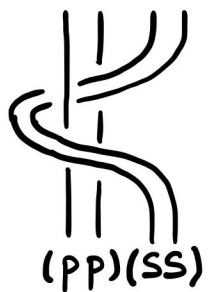


Strand-doubling eq.

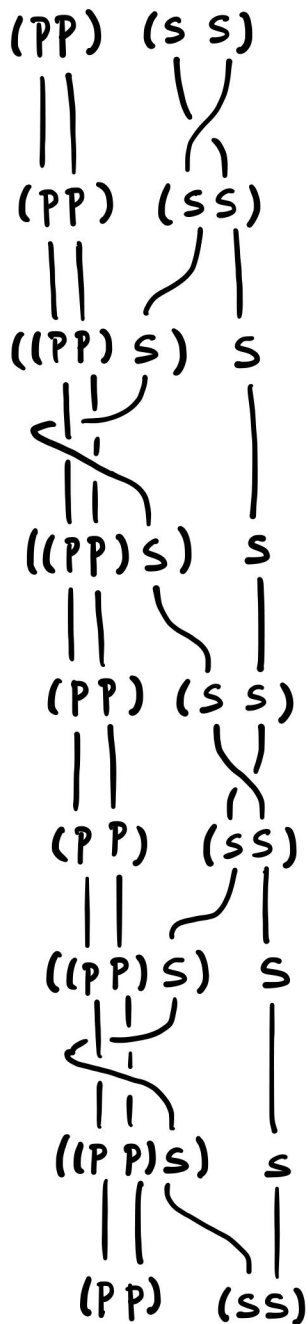


should be  
=

$$\Delta_s(Z(\alpha))$$

(plus, similar eq for  $\beta$ )

[ Q.  
What is  $\Phi_{(ps)s}$  ? ]



$$1 - \frac{1}{2} \left( \begin{array}{c} \text{cross} \\ \hline (PP)(SS) \end{array} \right)$$

$$\Delta_p(\Phi_{(ps)s})$$

$$Z(\alpha) \Big|_{x \rightarrow x_2, y \rightarrow y_2}$$

$$\Delta_p(\Phi_{(ps)s}^{-1})$$

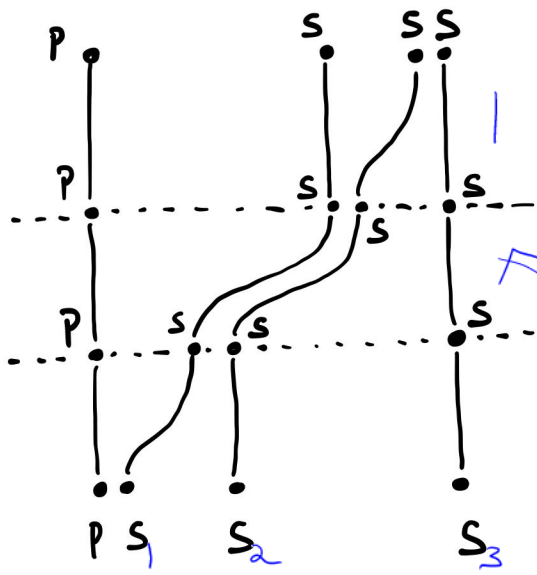
$$1 + \frac{1}{2} \left( \begin{array}{c} \text{cross} \\ \hline (PP)(SS) \end{array} \right)$$

$$\Delta_p(\Phi_{(ps)s})$$

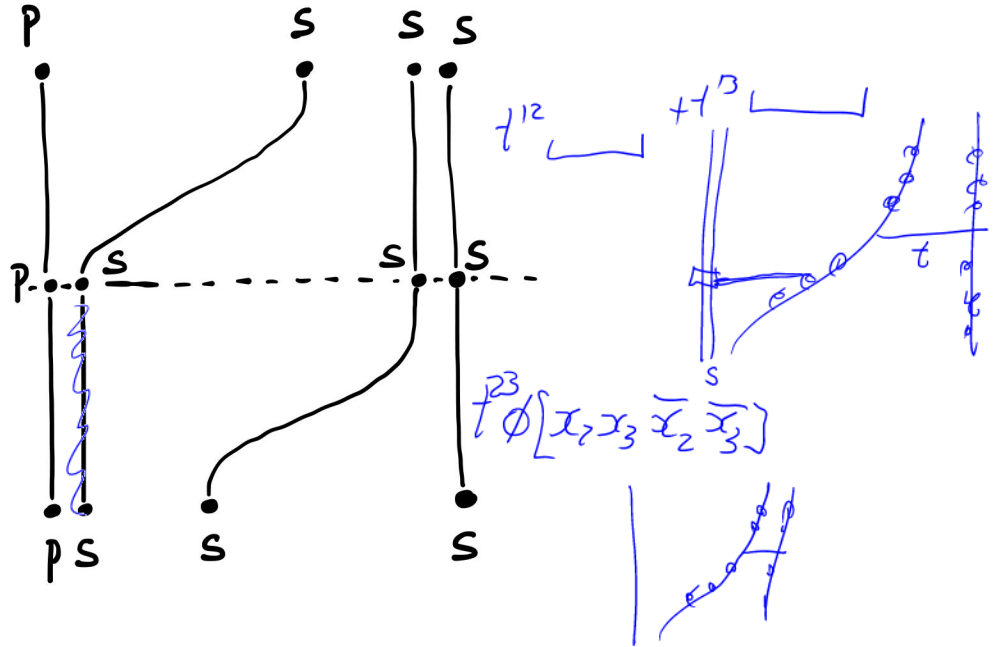
$$Z(\alpha) \Big|_{x \rightarrow x_1, y \rightarrow y_1}$$

$$\Delta_p(\Phi_{(ps)s}^{-1})$$

pentagon eq. for pss :



=



$$\Phi_{(ps)s} \cdot \Delta_s(\Phi_{(ps)s})_{12 \rightarrow (12)3} \cdot \Phi_{(ss)s}$$

$$\Delta_p(\Phi_{(ps)s})_{pp \rightarrow ps} \cdot \Delta_s(\Phi_{(ps)s})_{12 \rightarrow 1(23)}$$

$$\Phi \oplus \phi[x_1, x_2, \bar{x}_1, \bar{x}_2] t^{12}$$

$$t^{13} \phi[x_1+x_2, x_3, \bar{x}_1+x_2, \bar{x}_3] + t^{23} \phi[x_1+x_2, x_3, x_1+\bar{x}_2, \bar{x}_3]$$