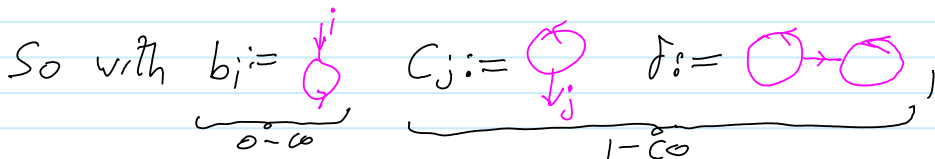
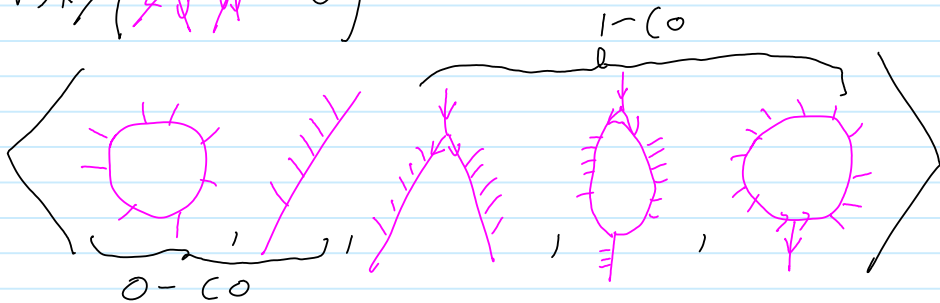


So

$$PAW(\uparrow_s) / \left(\begin{matrix} i & j \\ \downarrow & \downarrow \\ k & k \end{matrix} = \begin{matrix} i & j \\ \downarrow & \downarrow \\ k & k \end{matrix} - \begin{matrix} i & j \\ \downarrow & \downarrow \\ k & k \end{matrix} \right) = \hat{R}_s \oplus M_{SXS}(\hat{R}_s)$$

and the rest is (hard!) calculations, which lead to a simple **rational-function** result.

$$PAV / (\text{crossing} = 0) =$$



$$(PAV / 2co) / 2D \subset$$

$$\hat{R}_s \oplus M_{SXS}(\hat{R}_s) \oplus \hat{R}_s \otimes \hat{R}_s \oplus \hat{R}_s \otimes \hat{R}_s \oplus \hat{R}_s \otimes \hat{R}_s \oplus \hat{R}_s \otimes \hat{R}_s$$

$$= V_s + V_s^{\otimes 2} + V_s + V_s^{\otimes 2} + V_s^{\otimes 3} + (S^2(V_s))^{\otimes 2}$$

[The product law is awful, but experience shows that things simplify....]

Stitching is clearly possible, but I still don't have explicit formulas.

Proposition The element R_{ij} given below solves the YB equation

$$R_{12}R_{13}R_{23} = R_{23}R_{13}R_{12}$$

in $A^V / 2co / 2D$:

$$R_{jk} = e^{j-k} e^{\rho}, \text{ with}$$

$$\rho = -\phi_2(b_j) \begin{matrix} j & k \\ | & | \\ \hline c \rightarrow \end{matrix}$$

$$+ \frac{\phi_2(b_j)}{b_j} \begin{matrix} j & k \\ | & | \\ \hline c \rightarrow \end{matrix}$$

$$+ \frac{\phi_1(b_j)\phi_2(b_k)}{b_k\phi_1(b_k)} \begin{matrix} j & k \\ | & | \\ \hline c \rightarrow \end{matrix}$$

$$- \frac{\phi_2(b_j)}{b_j^2} \rho \begin{matrix} j & k \\ | & | \\ \hline c \rightarrow \end{matrix}$$

$$- \frac{\phi_1(b_j)\phi_2(b_k)}{b_j b_k \phi_1(b_k)} \rho \begin{matrix} j & k \\ | & | \\ \hline c \rightarrow \end{matrix}$$

where $\phi_1(x) = e^{-x} - 1$

$$\text{and } \phi_2(x) = \frac{(x+2)e^{-x} - 2+x}{2x}$$