The Variables:

$$\begin{pmatrix} b_1\backslash a_1 & x_{12} & x_{13} \\ y_{12} & b_2\backslash a_2 & x_{23} \\ y_{13} & y_{23} & b_3\backslash a_3 \end{pmatrix}, \quad \xi_-, \alpha_-, \beta_-, \eta_-.$$

We short "x_1" for either of x_{12}, x_{23} and "x_2" for x_{13}. Weights are intuitive on yb and 3-complementary on ax: wt: $b \to 0$, $y_1 \to 1$, $y_2 \to 2$, $a \to 3$, $x_1 \to 2$, $x_2 \to 1$. Weights are 3-complementary on the dual (greek) variables.

In $m[ij \to k]$:

At $\epsilon = 0$: $\ldots, \xi_1\eta_1 b, \xi_2\eta_2 b, \xi_1'\xi_1'' x_2, \eta_2\xi_1 y_1, \alpha\xi_i x_i \ldots$

At ϵ/ϵ^2: $\ldots, \xi_1\eta_1 a, \xi_2\eta_2 a, \ldots$

In $\Delta[i \to jk]$:

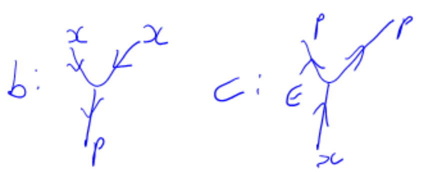
At $\epsilon = 0$: $\ldots, \eta_i b y_i, \ldots$

The General Heisenberg Integrand.

$L = Q + V = Q + V_0 + V_{\geqslant 1}$, where

$$Q \sim -\sum_{c:(s,i,j),\alpha} x_i^\alpha \left(p_i^\alpha - T^{s\alpha} p_{i+}^\alpha + (T^{s\alpha} - 1) p_{j+}^\alpha\right) + x_j^\alpha \left(p_j^\alpha - p_{j+}^\alpha\right)$$

$$V_0 \sim p_i^{\alpha_3} x^{\alpha_1}_{(i/j)+} x^{\alpha_2}_{(i/j)+}$$



In trees,