

$$\begin{aligned}
\tilde{Z}^t(c(t_{\alpha_{12}})) &= \exp_{\sqcup} \left(\sum_{i=1}^g \left(\begin{array}{c} \bullet \ i^+ \\ \vdots \\ \bullet \ i^- \end{array} + \frac{1}{2} \begin{array}{c} \bullet \ \text{---} \ \bullet \\ \text{---} \ \text{---} \ \text{---} \\ \bullet \ 1^- \ \bullet \ 1^- \end{array} + \frac{1}{2} \begin{array}{c} \bullet \ \text{---} \ \bullet \\ \text{---} \ \text{---} \ \text{---} \\ \bullet \ 2^- \ \bullet \ 2^- \end{array} + \begin{array}{c} \bullet \ \text{---} \ \bullet \\ \text{---} \ \text{---} \ \text{---} \\ \bullet \ 1^- \ \bullet \ 2^- \end{array} \right) \right) \\
&\sqcup \exp_{\sqcup} \left(- \frac{1}{2} \begin{array}{c} \bullet \ 1^+ \\ \vdots \\ \bullet \\ \vdots \\ \bullet \ 1^- \ \bullet \ 2^- \end{array} - \frac{1}{2} \begin{array}{c} \bullet \ 2^+ \\ \vdots \\ \bullet \\ \vdots \\ \bullet \ 2^- \ \bullet \ 1^- \end{array} + (\text{i-deg} \geq 2) \right).
\end{aligned}$$