

$$Z^t \left(\begin{array}{c} \uparrow \\ \text{loop} \\ \downarrow \end{array} \right) = Z^t \left(\begin{array}{c} \uparrow \\ \text{figure-eight} \\ \downarrow \end{array} \right) = \begin{array}{c} \text{loop} \\ \boxed{S_3 S_2 \Phi^{-1}} \\ \left[\begin{array}{c} \frac{1}{2} \text{---} \\ \text{---} \end{array} \right] \\ \boxed{S_3 S_2 \Phi} \\ \text{loop} \end{array} = \uparrow + \frac{1}{2} \begin{array}{c} \uparrow \\ \text{dashed loop} \end{array} + \frac{1}{\infty} \begin{array}{c} \uparrow \\ \text{dashed loop} \end{array} + (\text{deg} \geq 3).$$