

$$\log \left(\tilde{Z}^t(c(f)) \right) = \left(\sum_{i=1}^g \begin{array}{c} \bullet \\ \vdots \\ \bullet \end{array} \begin{array}{c} i^+ \\ \\ i^- \end{array} \right) - \left(\eta^{-1} \tau_1^a(f) \right) |_{a_j \mapsto j^-, b_j \mapsto j^+} + (\text{a-deg} > 1).$$