

$G / : G[\lambda 1_+] G[\lambda 2_-] := G[\lambda 1 + \lambda 2];$

$m_{a_-, b_- \rightarrow c_-}[G[\lambda_-]] := \text{Module}\left[\{\alpha, \beta, \gamma, \delta, \theta, \epsilon, \phi, \psi, \Xi, \mu\},$

$$\begin{pmatrix} \alpha & \beta & \theta \\ \gamma & \delta & \epsilon \\ \phi & \psi & \Xi \end{pmatrix} = \begin{pmatrix} \partial_{t_a, h_a} \lambda & \partial_{t_a, h_b} \lambda & \partial_{t_b} \lambda \\ \partial_{t_b, h_a} \lambda & \partial_{t_b, h_b} \lambda & \partial_{t_b} \lambda \\ \partial_{h_a} \lambda & \partial_{h_b} \lambda & \lambda \end{pmatrix} / . (t | h)_{a|b} \rightarrow 0;$$

$\mu = 1 - \beta;$

$G\left[\text{Tr}\left[\begin{pmatrix} t_c \\ 1 \end{pmatrix}^\top \cdot \begin{pmatrix} \gamma + \alpha \delta / \mu & \epsilon + \delta \theta / \mu \\ \phi + \alpha \psi / \mu & \Xi + \psi \theta / \mu \end{pmatrix} \cdot \begin{pmatrix} h_c \\ 1 \end{pmatrix} \right] \right] / . T_{a|b} \rightarrow T_c //$

Factor];

$Rp_{a_-, b_-} := G\left[\text{Tr}\left[\begin{pmatrix} t_a \\ t_b \end{pmatrix}^\top \cdot \begin{pmatrix} 1 & 1 - T_a \\ 0 & T_a \end{pmatrix} \cdot \begin{pmatrix} h_a \\ h_b \end{pmatrix} \right] \right];$

$Rm_{a_-, b_-} := Rp_{a, b} / . T_a \rightarrow 1 / T_a;$