

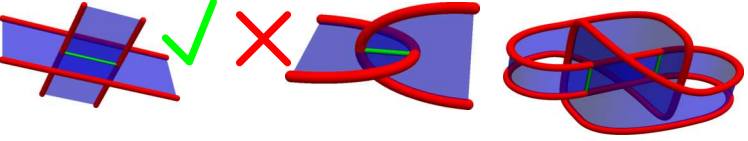
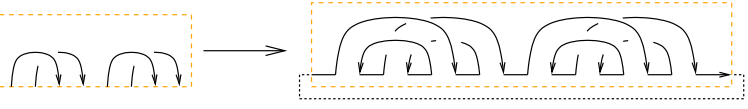
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Γ := Γ[ω1_, λ1_] Γ[ω2_, λ2_] := Γ[ω1*ω2, λ1*λ2];
m_{a,b} := Module[{α, β, γ, δ, ε, φ, ψ, Σ, μ},
  {
    α β ε
    γ δ ε
    φ ψ Σ
  } = {
    ∂_{t_a, h_3} λ
    ∂_{t_a, h_3} λ
    ∂_{t_a, h_3} λ
  } /. (t | h)_{a|b} → 0;
  Γ[(μ = 1 - β) ω, {t_c, 1} . {γ + α δ / μ, ε + δ θ / μ} . {h_c, 1}]
  /. {T_a → T_c, T_b → T_c} // RCollect;
  Rp_{a,b} := Γ[1, {t_a, t_b} . {1 1 - T_a
    0 T_a} . {h_a, h_b}];
  M // MatrixForm;
  Rm_{a,b} := Rp_{ab} /. T_a → 1 / T_a;

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$$\xi = \Gamma[\omega, \{t_1, t_2, t_3, t_s\} \cdot \begin{pmatrix} \alpha_{11} & \alpha_{12} & \alpha_{13} & \theta_1 \\ \alpha_{21} & \alpha_{22} & \alpha_{23} & \theta_2 \\ \alpha_{31} & \alpha_{32} & \alpha_{33} & \theta_3 \\ \phi_1 & \phi_2 & \phi_3 & \Sigma \end{pmatrix} \cdot \{h_1, h_2, h_3, h_s\}];$$

$$(\xi // m_{12 \rightarrow 1} // m_{13 \rightarrow 1}) = (\xi // m_{23 \rightarrow 2} // m_{12 \rightarrow 1})$$



True

{Rm51 Rm62 Rp34 // m14→1 // m25→2 // m36→3, Rp61 Rm24 Rm35 // m14→1 // m25→2 // m36→3}

$$\begin{pmatrix} 1 & h_1 & h_2 & h_3 \\ t_1 & \frac{T_3}{T_2} & 0 & 0 \\ t_2 & \frac{-1+T_2}{T_2} & \frac{1}{T_3} & 0 \\ t_3 & \frac{-1+T_3}{T_2} & \frac{-1+T_3}{T_3} & 1 \end{pmatrix}, \begin{pmatrix} 1 & h_1 & h_2 & h_3 \\ t_1 & \frac{T_3}{T_2} & 0 & 0 \\ t_2 & \frac{-1+T_2}{T_2} & \frac{1}{T_3} & 0 \\ t_3 & \frac{-1+T_3}{T_2} & \frac{-1+T_3}{T_3} & 1 \end{pmatrix}$$

z = Rm12,1 Rm27 Rm83 Rm4,11 Rp16,5 Rp6,13 Rp14,9 Rp10,15;

Do[z = z // m1k→1, {k, 2, 16}];

$$\begin{pmatrix} 11 - \frac{1}{T_1^3} + \frac{4}{T_1^2} - \frac{8}{T_1} - 8T_1 + 4T_1^2 - T_1^3 & h_1 \\ t_1 & 1 \end{pmatrix}$$
