

## Program

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⟨μ_⟩ := μ /. t_ → 1;

tmx_,y→z_ [β_] := β /. {tx|y → tz, Tx|y → Tz};

hmx_,y→z_ [B[ω_, Λ_]] := Module[
  {α = D[Λ, hx], β = D[Λ, hy], γ = Λ /. hx|y → 0},
  B[ω, (α + (1 + ⟨α⟩) β) hz + γ] // βCollect];

swx_,y_ [B[ω_, Λ_]] := Module[{α, β, γ, δ, ε},
  α = Coefficient[Λ, hy tx]; β = D[Λ, tx] /. hy → 0;
  γ = D[Λ, hy] /. tx → 0; δ = Λ /. hy | tx → 0;
  ε = 1 + α;
  B[ω * ε, α (1 + ⟨γ⟩ / ε) hy tx + β (1 + ⟨γ⟩ / ε) tx
    + γ / ε hy + δ - γ * β / ε
  ] // βCollect];

gmx_,y→z_ [β_] := β // swx,y // hmx,y→z // tmx,y→z;

tΔx→y_,z_ [β_] := β /. {tx → ty + tz, Tx → Ty Tz};

hΔx→y_,z_ [β_] := β /. {hx → hy + hz};

B /: B[ω1_, Λ1_] B[ω2_, Λ2_] := B[ω1 * ω2, Λ1 + Λ2];

Rpx_,y_ := B[1, (Tx - 1) tx hy];

Rmx_,y_ := B[1, (Tx-1 - 1) tx hy];

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