```mathematica
TSD[λ_]_j_ := Lookup[λ, j, UU@a[1, j, h∞]];
UU[u_] // γ_TSD := CF[u /. λ_a :> γ@λ];
TSD /: (γ_TSD)^-1 := Module[{S = Keys @@ γ, m},
   m = Table[Coefficient[γ_i , a[j, h∞]], {i, S}, {j, S}] //
     Inverse;
   TSD@<|Table[S[[α]] →
        CF@UU@Sum[a[m[[α, β]], S[[β]], h∞], {β, Length@S}],
       {α, Length@S}]|>
  ];
a[f_, j_, k_] // γ_TSD := Module[{S = Keys @@ γ, γi},
   Switch[{MemberQ[S, j], MemberQ[S, k]},
    {False, False}, UU@a[f, j, k],
    {True, False}, γ_j /. a[g_, i_, h∞] :> a[f g, i, k],
    {False, True}, (γi = γ^-1;
     CF@Sum[
        γ[bb[S ⋃ {j}]][γi_i, UU@a[f, j, k]] /. {
          a[_, i, h∞] :> 0, a[g_, l_, h∞] :> a[g/b_i, l, i]},
         {i, S}]),
    {True, True}, ct[h∞, t∞][γ@a[f, j, h∞],
     γ@a[1, t∞, k]]
   ]];
```