

```

hb[y_][UU[L_], UU[R_]] :=

CF[UU[Expand[Distribute[pp[L, R]] /. {
  pp[0, _] → 0, pp[_, 0] → 0,
  pp[_β | _δβ, _] → 0,
  pp[_, _β | _δβ] → 0,
  pp[_c | _ao | _ca | _aaو, _c | _ao | _ca | _aaو] → 0,
  pp[u_c | u_aو | u_ca | u_aaو, v_a] ⇒ -pp[v, u]
} /. {
  pp[a[f_, i_, y], u_] ⇒ (u /. {
    a[g_, j_, k_] ⇒ Kδyk hb[f g, i, j, k],
    c[g_, j_] ⇒ Kδyz ao[f g, i, y],
    ao[g_, j_, k_] ⇒ Kδyk ao[-f g bi, j, y],
    ca[g_, j_, k_, l_] ⇒
      Kδyz (ca[f g bk, l, i, y] + aao[f g, i, l, k, y]) +
      Kδyl (ca[-f g bi, j, k, y] + ca[f g bk, j, i, y]) +
      Kδyj ao[f g bk, i, y],
    aao[g_, j_, k_, l_, m_] ⇒
      Kδyk (ca[-f g bj bl, m, i, y] +
      aao[-f g bi, j, m, l, y]) +
      Kδym (ca[-f g bj bl, k, i, y] +
      aao[-f g bi, j, k, l, y]) +
      Kδykm ao[-f g bj bl, i, y]
  }), 
  _pp → 0
}]];

```