Gaining confidence in hts

March 6, 2016 12:25 PM

From SnG.nb:

UU[expr_] // hts[y_, x_] := S[UU[Expand[expr /. { a[f_, i_, j_] ⇒ a[f, i, j] - <mark>ε₅ Kδ_{j,γ}γ[∂_{bγ}f, i, γ]</mark> - $K\delta_{1,x} K\delta_{1,y} \left(\epsilon_{s} \beta[f b_{x}] + \epsilon_{7} c[f, y] - \epsilon_{s} \delta\beta[b_{x} \partial_{b_{x}} f] \right),$ $\delta a[f_, x, y] \Rightarrow \delta a[f, x, y] - \epsilon_{g} \delta \beta [f b_{x}],$ $ca[f_i, i_j, j_j, k_i] \Rightarrow ca[f, i, j, k] + \epsilon_{10} K\delta_{i, y} K\delta_{j, x} \gamma[f, x, k] +$ $K\delta_{1,x} K\delta_{k,y} c[-\epsilon_{11} f b_{x}, i],$ $\delta aa[f_{,i}, j_{,k}, k_{,l}] \Rightarrow \delta aa[f, i, j, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{j,y} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b_x f, k, l] + \epsilon_{12} K \delta_{i,x} \delta a[-b$ $\epsilon_{13} \operatorname{K\delta}_{i,x} \operatorname{K\delta}_{i,y} (-\delta a[b_k f, x, j] + \delta a[b_x f, k, j]) +$ $\epsilon_{14} \operatorname{K\delta}_{k,x} \operatorname{K\delta}_{1,y} (\delta a[b_1 f, x, l] - \delta a[b_x f, i, l]) +$ $\epsilon_{15} \operatorname{K\delta}_{k,x} \operatorname{K\delta}_{l,y} \delta a[-b_x f, i, j] + \epsilon_{16} \operatorname{K\delta}_{i,x} \operatorname{K\delta}_{j,l,y} \delta \beta[b_x b_k f] +$ $2 \epsilon_{17} K \delta_{x,1,k} K \delta_{y,1,1} \delta \beta [b_x b_x f]$ 31117 Table[i -> ϵ_1 , {i, 5, 17}] $\{5 \rightarrow e_5, 6 \rightarrow e_6, 7 \rightarrow -e_5, 8 \rightarrow e_5 e_9, 9 \rightarrow e_9, 10 \rightarrow e_{10}, 11 \rightarrow e_{10},$ $12 \rightarrow e_{10}, \ 13 \rightarrow -e_{10}, \ 14 \rightarrow e_{10}, \ 15 \rightarrow e_{10}, \ 16 \rightarrow -e_{9} \ e_{10}, \ 17 \rightarrow e_{9} \ e_{10} \}$ Er: The action of a head on an F, in a. E: The action of a head on its own tail, in a. should be fixed by a ctayion? Eq. As El, in Fr. E. The action of a C on a tail.