```
In[179]:= (Vsoft + VsoftC) [[1, 1]] // Simplify
       \text{Out} [\text{179}] = \text{ A0 } (-\text{H10 H20} + \text{H1m H2p}) \text{ S} + \frac{\text{A3 S}^3}{6} + \text{A0 } (-\text{H10C H20C} + \text{H1mC H2pC}) \text{ SC} + \frac{\text{A3 SC}^3}{6} + \frac{1}{2} \text{ A2 SC sn} \left[\text{3}\right]^2 + \frac{1}{2} \text{ A2 S snC} \left[\text{3}\right]^2 + \frac{1}{2} \text{ A3 S S}^2 + \frac{1}{2} \text{ A4 S S S SnC} \left[\text{3}\right]^2 + \frac{1}{2} \text{ A4 S S S SnC} \left[\text{3}\right]^2 + \frac{1}{2} \text{ A5 S SnC} \left[
                                                                                                                                                                                  \texttt{A1[1]} \ \ \texttt{snC[3]} \ \ (-\texttt{H2p} \ \ \texttt{s} \in [\texttt{1}] \ + \ \texttt{H20} \ \ \texttt{sv[1]}) \ + \ \texttt{A1[2]} \ \ \texttt{snC[3]} \ \ (-\texttt{H2p} \ \ \texttt{s} \in [\texttt{2}] \ + \ \texttt{H20} \ \ \texttt{sv[2]}) \ + \ \texttt{A\tau} \ \ \texttt{seC[3]} \ \ (\texttt{H10} \ \ \ \texttt{s} \in [\texttt{3}] \ - \ \texttt{H1m} \ \ \texttt{sv[3]}) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ ) \ + \ \texttt{H2m} \ \ \texttt{sv[3]} \ \ \ 
                                                                                                                                                                             \texttt{Atop} \ \mathsf{suC}[3] \ (-\texttt{H2p} \ \mathsf{s}\delta[3] \ + \ \texttt{H20} \ \mathsf{s}\upsilon[3]) \ + \ \texttt{Abtm} \ \mathsf{sd}[3] \ (\texttt{H10C} \ \mathsf{s}\delta\mathsf{C}[3] \ - \ \texttt{H1mC} \ \mathsf{s}\upsilon\mathsf{C}[3]) \ + \ \texttt{Atop} \ \mathsf{su}[3] \ (-\texttt{H2pC} \ \mathsf{s}\delta\mathsf{C}[3] \ + \ \texttt{H20C} \ \mathsf{s}\upsilon\mathsf{C}[3])
         In[180]:= Vd[[1, 1]] // Simplify
 \text{Out}[180] = \frac{1}{72} \left( -9 \text{ g2}^2 \text{ (H10C H1m - H10 H1mC - H20C H2p + H20 H2pC - seC[1] sv[1] - seC[2] sv[2] - seC[3] sv[3] + se[1] \text{ svC[1] + seC[2] sv[2] - seC[3] sv[3] + se[1] svC[1] + seC[3] sv[3] + se[1] svC[3] + seC[3] sv[3] + se[1] svC[3] + seC[3] sv[3] + se[3] sv[3
                                                                                                                                                                                                                                                                                                                s \in [2] \ s \lor C[2] + s \in [3] \ s \lor C[3] - s \delta C[1] \ s \lor [1] - s \delta C[2] \ s \lor [2] - s \delta C[3] \ s \lor [3] + s \delta [1] \ s \lor C[1] + s \delta [2] \ s \lor C[2] + s \delta [3] \ s \lor C[3])^2 + s \delta [2] \ s \lor C[3] + s \delta [2] + s \delta [2] \ s \lor C[3] + s \delta [2] + s \delta [2
                                                                                                                                                                                                                           9~g2^2~(\texttt{H10C~H1m} + \texttt{H10~H1mC} + \texttt{H20C~H2p} + \texttt{H20~H2pC} + \texttt{s} \in \texttt{C}\,\texttt{[1]}~\texttt{s} \vee \texttt{[1]} + \texttt{s} \in \texttt{C}\,\texttt{[2]}~\texttt{s} \vee \texttt{[2]} + \texttt{s} \in \texttt{C}\,\texttt{[3]}~\texttt{s} \vee \texttt{[3]} + \texttt{s} \in \texttt{[1]}~\texttt{s} \vee \texttt{C}\,\texttt{[1]} + \texttt{s} \in \texttt{[2]}~\texttt{s} \vee \texttt{C}\,\texttt{[2]} + \texttt{s} \in \texttt{C}\,\texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \in \texttt{[1]}~\texttt{s} \vee \texttt{C}\,\texttt{[1]} + \texttt{s} \in \texttt{[2]}~\texttt{s} \vee \texttt{C}\,\texttt{[2]} + \texttt{s} \in \texttt{C}\,\texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \in \texttt{[1]}~\texttt{s} \vee \texttt{C}\,\texttt{[1]} + \texttt{s} \in \texttt{[2]}~\texttt{s} \vee \texttt{C}\,\texttt{[2]} + \texttt{s} \in \texttt{C}\,\texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \in \texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \in \texttt{[3]} + \texttt{s} \in \texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \in \texttt{[3]} + \texttt{s} \in \texttt{[3]}~\texttt{s} \vee \texttt{C}\,\texttt{[3]} + \texttt{s} \times \texttt{C}\,\texttt{[
                                                                                                                                                                                                                                                                                                                       \mathbf{s} \in [3] \ \mathbf{s} \vee \mathbf{C} \\ [3] + \mathbf{s} \delta \mathbf{C} \\ [1] \ \mathbf{s} \cup [1] + \mathbf{s} \delta \mathbf{C} \\ [2] \ \mathbf{s} \cup [2] + \mathbf{s} \delta \mathbf{C} \\ [3] \ \mathbf{s} \cup [3] + \mathbf{s} \delta \\ [1] \ \mathbf{s} \cup \mathbf{C} \\ [1] + \mathbf{s} \delta \\ [2] \ \mathbf{s} \cup \mathbf{C} \\ [2] + \mathbf{s} \delta \\ [3] \ \mathbf{s} \cup \mathbf{C} \\ [3] \ \mathbf{s} \cup \mathbf{C} \\ [3] + \mathbf{s} \delta \\ [3] \ \mathbf{s} \cup \mathbf{C} \\ [3] + \mathbf{s} \delta \\ [4] \ \mathbf{s} \cup \mathbf{C} \\ [5] + \mathbf{s} \delta \\ [6] \ \mathbf{s} \cup \mathbf{C} \\ [6] + \mathbf{s} \delta \\ [7] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{s} \delta \\ [8] \ \mathbf{s} \cup \mathbf{C} \\ [8] + \mathbf{
                                                                                                                                                                                                                           \mathtt{g1}^2\ (-3\ \mathtt{H10}\ \mathtt{H10C}-3\ \mathtt{H1m}\ \mathtt{H1mC}+3\ \mathtt{H20}\ \mathtt{H20C}+3\ \mathtt{H2p}\ \mathtt{H2pC}+2\ \mathtt{sd}[1]\ \mathtt{sdC}[1]+2\ \mathtt{sd}[2]\ \mathtt{sdC}[2]+2\ \mathtt{sd}[3]\ \mathtt{sdC}[3]+6\ \mathtt{se}[1]\ \mathtt{seC}[1]+6\ \mathtt{se}[2]\ \mathtt{seC}[2]+2\ \mathtt{sd}[2]+2\ \mathtt{sd}[3]+2\ \mathtt{s
                                                                                                                                                                                                                                                                                                                    6 \; se[3] \; seC[3] \; -4 \; su[1] \; suC[1] \; -4 \; su[2] \; suC[2] \; -4 \; su[3] \; suC[3] \; +s\delta[1] \; s\delta C[1] \; +s\delta[2] \; s\delta C[2] \; +s\delta[3] \; s\delta C[3] \; -3 \; s\epsilon[1] \; s\epsilon C[1] \; -1 \; s\epsilon C[1] \; -1
                                                                                                                                                                                                                                                                                                                    3\ s\in[2]\ s\in C[2]\ -3\ s\in[3]\ s\in C[3]\ -3\ s\vee[1]\ s\vee C[1]\ -3\ s\vee[2]\ s\vee C[2]\ -3\ s\vee[3]\ s\vee C[3]\ +s\vee[1]\ s\vee C[1]\ +s\vee[2]\ s\vee C[2]\ +s\vee[3]\ s\vee C[3]\ )^2\ +s\vee[3]\ s\vee C[3]\ +s\vee[3]\ +s\vee[3]\ s\vee C[3]\ +s\vee[3]\ +s\vee[3]\ s\vee C[3]\ +s\vee[3]\ s\vee C[3]\ +s\vee[3]\ +s\vee[3]\ s\vee C[3]\ +s\vee[3]\ +s\vee[3
                                                                                                                                                                                                                           9~g2^2~(\texttt{H10~H10C-H1m~H1mC-H20~H20C+H2p~H2pC-s}\delta[1]~s\delta\texttt{C}[1] - s\delta[2]~s\delta\texttt{C}[2] - s\delta[3]~s\delta\texttt{C}[3] - s\epsilon[1]~s\epsilon\texttt{C}[1] - s\epsilon[2]~s\epsilon\texttt{C}[2] - s\delta\texttt{C}[2] -
                                                                                                                                                                                                                                                                                                                    s \in [3] \ s \in C[3] \ + \ s \vee [1] \ s \vee C[1] \ + \ s \vee [2] \ s \vee C[2] \ + \ s \vee [3] \ s \vee C[3] \ + \ s \cup [1] \ s \cup C[1] \ + \ s \cup [2] \ s \cup C[2] \ + \ s \cup [3] \ s \cup C[3])^{2} \Big)
         In[181]:= Vf[[1, 1]] // Simplify
\text{Out}[181] = \frac{1}{4} \left( 2 \text{ H10C H20C } \times 0 - 2 \text{ H1mC H2pC } \times 0 - \text{SC}^2 \times 3 - \times 2 \text{ sn} \left[ 3 \right]^2 \right) \\ \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - \text{S}^2 \times 3 - \times 2 \text{ snC} \left[ 3 \right]^2 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H10 H20 } \times 0 - 2 \text{ H1m H2p} \times 0 \right) \\ + \left( 2 \text{ H1
                                                                                                                                                                                    (\texttt{H1mC Ybtm sd[3] - H20C Ytop su[3]}) \\ (\texttt{H1m Ybtm sdC[3] - H20 Ytop suC[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ (\texttt{H10 Ybtm sdC[3] - H2p Ytop suC[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ (\texttt{H10 Ybtm sdC[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Ytop su[3]}) \\ + (\texttt{H10C Ybtm sd[3] - H2pC Yto
                                                                                                                                                                                       (-\text{H20C SC} \times 0 + \text{Ybtm sdC}[3] \text{ s} \\ \delta[3] + \text{Yt seC}[3] \text{ s} \\ \in [3]) \text{ } (-\text{H20C SC} \times 0 + \text{Ybtm sd}[3] \text{ s} \\ \delta\text{C}[3] + \text{Yt se}[3] \text{ s} \\ \in\text{C}[3]) \text{ } + \text{SeC}[3] \text{ } \\ \text{SeC}[3] \text{ } + \text{SeC}[3] \text{ } \\ \text{SeC}[3] \text{ } + \text{SeC}[3] \text{ } \\ \text{SeC}[3] \text{ } \\ \text{SeC}[3] \text{ } + \text{SeC}[3] \text{ } \\ \text{S
                                                                                                                                                                             \mathtt{Y}\tau^2 \ (\mathtt{H10} \ \mathsf{s} \in [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \in \mathtt{C}[3] \ - \ \mathsf{H1mC} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Ybtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1mC} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Ybtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1mC} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1mC} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1mC} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta [3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee [3]) \ (\mathtt{H10C} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathsf{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3]) \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3] \ + \ \mathtt{Vbtm}^2 \ (\mathtt{H10} \ \mathsf{s} \delta \mathtt{C}[3] \ - \ \mathtt{H1m} \ \mathsf{s} \vee \mathtt{C}[3] \ + \ \mathtt{Vbtm}^2 \ + \ \mathtt{Vbtm}
                                                                                                                                                                                 Ytop<sup>2</sup> (H2p s\delta[3] - H20 s\upsilon[3]) (H2pC s\deltaC[3] - H20C s\upsilonC[3]) +
                                                                                                                                                                                       (\texttt{H2pS} \times \texttt{0} - \texttt{Y}\tau \ \texttt{seC}[\texttt{3}] \ \texttt{s} \vee \texttt{[3]} - \texttt{Ybtm} \ \texttt{sdC}[\texttt{3}] \ \texttt{s} \vee \texttt{[3]}) \ (\texttt{H2pC} \ \texttt{SC} \times \texttt{0} - \texttt{Y}\tau \ \texttt{se}[\texttt{3}] \ \texttt{s} \vee \texttt{C}[\texttt{3}] - \texttt{Ybtm} \ \texttt{sd}[\texttt{3}] \ \texttt{s} \vee \texttt{C}[\texttt{3}]) \ + \ \texttt{se}(\texttt{s}) \ \texttt{s} \wedge \texttt{c} \times \texttt
                                                                                                                                                                                  \texttt{H20 H20C sn[3] snC[3] } \times \texttt{1[1]}^2 + \texttt{H2p H2pC sn[3] snC[3] } \times \texttt{1[1]}^2 + \texttt{H20 H20C sn[3] snC[3] } \times \texttt{1[2]}^2 + \texttt{H2p H2pC sn[3] snC[3] } \times \texttt{1[2]}^2 + \texttt{H2p H2pC sn[3] } \times \texttt{1[2]}^2 + \texttt{H2p H2pC sn[3]}^2 + \texttt{
                                                                                                                                                                                       (\texttt{H1mC}\ \texttt{Y}\ \texttt{T}\ \texttt{se}[3]\ -\ \texttt{H20C}\ \texttt{sn}[3]\ \kappa \texttt{1}[3])\ (\texttt{H1m}\ \texttt{Y}\ \texttt{T}\ \texttt{se}\texttt{C}[3]\ -\ \texttt{H20}\ \texttt{sn}\texttt{C}[3]\ \kappa \texttt{1}[3])\ +\ (\texttt{H10C}\ \texttt{Y}\ \texttt{T}\ \texttt{se}[3]\ -\ \texttt{H2pC}\ \texttt{sn}[3]\ \kappa \texttt{1}[3])\ (\texttt{H10}\ \texttt{Y}\ \texttt{T}\ \texttt{se}\texttt{C}[3]\ -\ \texttt{H2p}\ \texttt{sn}\texttt{C}[3]\ \kappa \texttt{1}[3])\ +\ (\texttt{H10C}\ \texttt{Y}\ \texttt{T}\ \texttt{se}[3]\ -\ \texttt{H2pC}\ \texttt{sn}[3]\ \kappa \texttt{1}[3])\ (\texttt{H10}\ \texttt{Y}\ \texttt{T}\ \texttt{se}\texttt{C}[3]\ -\ \texttt{H2p}\ \texttt{sn}\texttt{C}[3]\ \kappa \texttt{1}[3])\ +\ (\texttt{H1m}\ \texttt{Y}\ \texttt{T}\ \texttt{se}\texttt{C}[3]\ -\ \texttt{H2p}\ \texttt{sn}\texttt{C}[3]\ \times\ \texttt{H2p}\ \texttt{sn}\texttt{C}[3]\ +\ \texttt{H2p}\ \texttt{sn}\texttt{C}[3]\ \times\ \texttt{H2p}\ \texttt{Sn}\texttt{C}[3]\ \times\ \texttt{H2p}\ \texttt{Sn}\texttt{C}[3]\ \times\ \texttt{H2p}\ \texttt{H2p}\ \texttt{Sn}\texttt{C}[3]\ \times\ \texttt{H2p}\ \texttt
                                                                                                                                                                                       (\mathtt{H1m}\,\mathtt{S}\,\kappa\mathtt{0}\,\mathtt{-Ytop}\,\mathtt{suC}\,[3]\,\mathtt{s}\delta\,[3]\,\mathtt{-snC}\,[3]\,\,(\mathtt{s}\in[1]\,\kappa\mathtt{1}\,[1]\,\mathtt{+s}\in[2]\,\kappa\mathtt{1}\,[2]\,\mathtt{+s}\in[3]\,\kappa\mathtt{1}\,[3]\,))
                                                                                                                                                                                                           (\mathtt{H1mC}\ \mathsf{SC}\ \kappa 0\ -\ \mathsf{Ytop}\ \mathsf{su}[3]\ \mathsf{s}\delta\mathsf{C}[3]\ -\ \mathsf{sn}[3]\ (\mathsf{s}\mathsf{\in}\mathsf{C}[1]\ \kappa 1[1]\ +\ \mathsf{s}\mathsf{\in}\mathsf{C}[2]\ \kappa 1[2]\ +\ \mathsf{s}\mathsf{\in}\mathsf{C}[3]\ \kappa 1[3])\ )\ +\ \mathsf{s}\mathsf{C}[3]\ \mathsf{s}\delta\mathsf{C}[3]\ \mathsf{s}\delta\mathsf{C}
                                                                                                                                                                                       (SC \ \kappa 2 \ sn[3] - H2pC \ (s \in C[1] \ \kappa 1[1] + s \in C[2] \ \kappa 1[2] + s \in C[3] \ \kappa 1[3]) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[1] + s \vee C[2] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[2] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[3] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[3] + s \vee C[3] \ \kappa 1[3])) + H2pC \ (s \vee C[1] \ \kappa 1[3] + s \vee C[3] \ \kappa 1[3] + s \vee C[3] +
                                                                                                                                                                                       (-\text{H10 S} \, \kappa 0 + \text{Ytop suC[3]} \, \text{s} \, \upsilon \, [3] \, + \text{snC[3]} \, \left( \text{s} \, \nu \, [1] \, \, \kappa 1 \, [1] \, + \text{s} \, \nu \, [2] \, \, \kappa 1 \, [2] \, + \text{s} \, \nu \, [3] \, \, \kappa 1 \, [3] \right))
                                                                                                                                                                                                           (-H10C SC \kappa 0 + Ytop su[3] s \nu C[3] + sn[3] (s \nu C[1] \kappa 1[1] + s \nu C[2] \kappa 1[2] + s \nu C[3] \kappa 1[3]))
```