

$$\begin{aligned}
& \frac{m_t(\text{tr}(1+2|5)\text{tr}(5|4)-2m_h^2\text{tr}(4|1+2))}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} \dots \frac{\langle 44 \text{ terms} \rangle \dots -1/3[3|4|2]\langle 2|4|1 \rangle [12]\langle 14 \rangle}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(\text{tr}(1+2|5)\text{tr}(5|4)-2m_h^2\text{tr}(4|1+2))(-1/6\langle 3|4|1 \rangle \langle 2|3|4 \rangle \langle 1|4|1 \rangle \dots \langle 10 \text{ terms} \rangle \dots +1/6\langle 32 \rangle [14]m_t^2\text{tr}(3|4))}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} + \\
& \frac{[34]m_t^2(\text{tr}(1+2|5)\text{tr}(5|4)-2m_h^2\text{tr}(4|1+2))(-1/6\text{tr}(3|4)\langle 2|4|1 \rangle +1/3\langle 2|4|1 \rangle m_t^2+1/3\langle 2|3|1 \rangle m_t^2-1/6\text{tr}(3|4)\langle 2|3|1 \rangle)}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(\text{tr}(1+2|4)\text{tr}(5|4)-2m_t^2\text{tr}(5|1+2))\langle 1/3[32]1|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 35 \text{ terms} \rangle \dots -5/3\text{tr}(3|4)[31]\langle 2|4|1 \rangle \langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(\text{tr}(1+2|4)\text{tr}(5|4)-2m_t^2\text{tr}(5|1+2))(-1[14]\langle 31 \rangle \langle 2|4|1 \rangle \langle 1|4|1 \rangle -1[24]\langle 31 \rangle \langle 2|4|1 \rangle^2 -\text{tr}(3|4)[14]\langle 31 \rangle \langle 2|4|1 \rangle +2\langle 32 \rangle [14]m_t^2\langle 2|4|2 \rangle)}{\langle 12 \rangle [12] \Delta_{123|4|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(-8/3\langle 32 \rangle [1|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 30 \text{ terms} \rangle \dots +8/3\langle 1|4|1 \rangle [31]\langle 2|4|1 \rangle \langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{123|4|5} (s_{123}-m_t^2)} + \\
& \frac{m_t(8/3\langle 32 \rangle [14]\langle 1|4|1 \rangle^2 \dots \langle 9 \text{ terms} \rangle \dots -16/3\langle 32 \rangle [14]m_t^2\text{tr}(3|4))}{\langle 12 \rangle [12] \Delta_{123|4|5} (s_{123}-m_t^2)} + \\
& \frac{[34]m_t^2(8/3\text{tr}(3|4)\langle 2|4|1 \rangle +16/3\langle 2|4|1 \rangle m_t^2+16/3\langle 2|3|1 \rangle m_t^2+8/3\text{tr}(3|4)\langle 2|3|1 \rangle)}{\langle 12 \rangle [12] \Delta_{123|4|5} (s_{123}-m_t^2)} + \\
& \frac{m_t(\text{tr}(1+2|5)\text{tr}(5|3)-2m_h^2\text{tr}(3|1+2))(-1/3\langle 32 \rangle [1|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 44 \text{ terms} \rangle \dots -1/2\text{tr}(3|4)[31]\langle 2|4|1 \rangle \langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{124|3|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(\text{tr}(1+2|5)\text{tr}(5|3)-2m_h^2\text{tr}(3|1+2))(-1/2[24]\langle 3|4|1 \rangle \langle 2|3|4|2 \rangle \dots \langle 17 \text{ terms} \rangle \dots -1\langle 32 \rangle [14]m_t^2\text{tr}(3|4)+1/12\langle 32 \rangle [14]\text{tr}(3|4)^2)}{\langle 12 \rangle [12] \Delta_{124|3|5} \Delta_{12|3|4|5}} + \\
& \frac{[34]m_t^2(\text{tr}(1+2|5)\text{tr}(5|3)-2m_h^2\text{tr}(3|1+2))(-1/6\text{tr}(3|4)\langle 2|4|1 \rangle +1/3\langle 2|4|1 \rangle m_t^2-1/3\langle 2|3|1 \rangle m_t^2+1/6\text{tr}(3|4)\langle 2|3|1 \rangle)}{\langle 12 \rangle [12] \Delta_{124|3|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(\text{tr}(1+2|3)\text{tr}(5|3)-2m_t^2\text{tr}(5|1+2))(-2/3\langle 32 \rangle [1|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 36 \text{ terms} \rangle \dots +1/3\langle 3|4|2 \rangle \langle 2|4|1 \rangle [12]\langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{124|3|5} \Delta_{12|3|4|5}} + \\
& \frac{[34]m_t^2(\text{tr}(1+2|3)\text{tr}(5|3)-2m_t^2\text{tr}(5|1+2))\langle 2/3[24]\langle 2|3|4|2 \rangle -2/3\langle 2|3|4 \rangle [12]\langle 12 \rangle -2/3\text{tr}(3|4)[14]\langle 12 \rangle +2/3[1|3|4|2 \rangle \langle 14 \rangle]}{\langle 12 \rangle [12] \Delta_{124|3|5} \Delta_{12|3|4|5}} + \\
& \frac{m_t(8/3[31]\langle 2|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 35 \text{ terms} \rangle \dots +8/3\text{tr}(3|4)[31]\langle 2|4|1 \rangle \langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{124|3|5} (s_{124}-m_t^2)} + \\
& \frac{\langle 32 \rangle [14]m_t^3(16/3m_t^2+8/3\text{tr}(3|4))}{\langle 12 \rangle [12] \Delta_{124|3|5} (s_{124}-m_t^2)} + \\
& \frac{[34]m_t^2(-8/3\text{tr}(3|4)\langle 2|4|1 \rangle -16/3\langle 2|4|1 \rangle m_t^2-16/3\langle 2|3|1 \rangle m_t^2-8/3\text{tr}(3|4)\langle 2|3|1 \rangle)}{\langle 12 \rangle [12] \Delta_{124|3|5} (s_{124}-m_t^2)} + \\
& \frac{-16/3[31]\langle 24 \rangle m_t}{\langle 12 \rangle [12] (s_{124}-m_t^2)} + \\
& \frac{-16/3[31]\langle 24 \rangle m_t}{\langle 12 \rangle [12] (s_{123}-m_t^2)} + \\
& \frac{-32/3\langle 32 \rangle [14]m_t}{\langle 12 \rangle [12] (s_{123}-m_t^2)} + \\
& \frac{m_t(4/3[31]\langle 2|3|2 \rangle \langle 24 \rangle \dots \langle 6 \text{ terms} \rangle \dots -11/3\langle 3|4|2 \rangle [12]\langle 24 \rangle)}{\langle 12 \rangle [12] \Delta_{12|34|5}} + \\
& \frac{\langle 32 \rangle m_t(4\langle 24 \rangle \langle 2|4|1 \rangle \dots \langle 3 \text{ terms} \rangle \dots +4[14]\langle 1|4|1 \rangle)}{\langle 12 \rangle [12] \Delta_{12|34|5}} + \\
& \frac{m_t(-10/3\langle 32 \rangle [12]\langle 24 \rangle \langle 2|3|4|2 \rangle \dots \langle 52 \text{ terms} \rangle \dots -2/3\langle 3|4|2 \rangle \langle 2|4|1 \rangle [12]\langle 14 \rangle)}{\langle 12 \rangle [12] \Delta_{12|34|5}} + \\
& \frac{m_t(-8/3[24]\langle 3|4|1 \rangle \langle 2|3|4|2 \rangle \dots \langle 27 \text{ terms} \rangle \dots +1/3\langle 32 \rangle [14]\langle 2|3|2 \rangle \text{tr}(3|4))}{\langle 12 \rangle [12] \Delta_{12|34|5}} + \\
& \frac{m_t(1[31][1|3|4 \rangle \langle 12 \rangle +1[3|4|2 \rangle [12]\langle 24 \rangle)}{s_{34} \Delta_{12|34|5}} + \\
& \frac{m_t(-1[14]\langle 3|4|1 \rangle \langle 12 \rangle -1\langle 32 \rangle \langle 2|3|4 \rangle [12])}{s_{34} \Delta_{12|34|5}} + \\
& \frac{-2[14][31]\langle 12 \rangle m_t^2}{s_{34} \Delta_{12|34|5}} + \\
& \frac{2\langle 32 \rangle [12]\langle 24 \rangle m_t^2}{s_{34} \Delta_{12|34|5}} + \\
& \frac{1/2[14][31]m_t^2(\text{tr}(1+2|3+4))^2}{[12] \Delta_{12|34|5}^2} + \\
& \frac{1/2\langle 32 \rangle \langle 24 \rangle m_t^2(\text{tr}(1+2|3+4))^2}{[12] \Delta_{12|34|5}^2} + \\
& \frac{m_t(6\langle 32 \rangle [1|3|4 \rangle \langle 2|3|4|2 \rangle \dots \langle 50 \text{ terms} \rangle \dots -7\langle 3|4|2 \rangle \langle 2|4|1 \rangle [12]\langle 14 \rangle)}{\Delta_{12|34|5}^2} + \\
& \frac{m_t(6\langle 24 \rangle \langle 3|4|1 \rangle \langle 2|3|4|2 \rangle \dots \langle 29 \text{ terms} \rangle \dots +3\langle 32 \rangle [14]\langle 2|3|2 \rangle \text{tr}(3|4)-3\langle 32 \rangle [14]\langle 12 \rangle \langle 2|3|2 \rangle [12])}{\Delta_{12|34|5}^2} + \\
& \frac{m_t(8/3[31]\langle 2|3|2 \rangle \langle 24 \rangle \dots \langle 4 \text{ terms} \rangle \dots +8/3\langle 3|4|2 \rangle [12]\langle 24 \rangle)}{\langle 12 \rangle [12] \Delta_{12|34|5}} + \\
& \frac{m_t(-4\langle 32 \rangle \langle 24 \rangle \langle 2|4|1 \rangle \dots \langle 4 \text{ terms} \rangle \dots +1[14]\langle 3|4|1 \rangle \langle 12 \rangle)}{\langle 12 \rangle [12] \Delta_{12|34|5}}
\end{aligned}$$