

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