

$$\begin{aligned}
& \frac{(1/3\langle 12 \rangle \langle 32 \rangle [12] \langle 24 \rangle + 1/3 \langle 34 \rangle \langle 12 \rangle \langle 23 \rangle [1] + 2/3 m_t^2 \langle 32 \rangle \langle 24 \rangle)}{\langle 12 \rangle (s_{123} - m_t^2)} + \\
& \frac{2/3 m_t^2 \langle 34 \rangle \langle 23 \rangle [1]}{\langle 12 \rangle [12] (s_{123} - m_t^2)} + \\
& \frac{m_t^2 \langle 23 \rangle [1] (s_{123} - m_t^2) (1/8 \langle 24 \rangle \langle 34 \rangle [2] \dots \langle 3 \text{ terms} \rangle \dots - 1/8 \langle 24 \rangle [2] \langle 34 \rangle)}{\Delta_{12|3|45}^2} + \\
& \frac{((2\langle 3 \rangle [1 + 2\langle 4 \rangle [1] - (2\langle 4 \rangle [1 + 2\langle 3 \rangle [1]) m_t (\text{tr}(\mathbf{3} \mathbf{4}) \text{tr}(1 + 2\mathbf{3}) - 2m_t^2 \text{tr}(1 + 2\mathbf{4})) (s_{123} - m_t^2) (1/48 m_t^2 [24] \langle 32 \rangle - 1/48 \langle 34 \rangle [1] \langle 13 \rangle [4] - 1/48 \langle 23 \rangle [4] \langle 34 \rangle [2] + 1/48 m_t^2 \langle 31 \rangle [14])}{\langle 12 \rangle [12] \Delta_{12|3|45}^2} + \\
& \frac{(\text{tr}(\mathbf{3} \mathbf{4}) \text{tr}(1 + 2\mathbf{3}) - 2m_t^2 \text{tr}(1 + 2\mathbf{4})) m_t^2 (1/32 \langle 23 \rangle [2] \langle 34 \rangle [1] \langle 24 \rangle \dots \langle 21 \text{ terms} \rangle \dots + 1/96 \langle 24 \rangle [2] \langle 32 \rangle [12] \langle 24 \rangle)}{\Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{m_t^2 (\text{tr}(1 + 2\mathbf{3}) \text{tr}(1 + 2\mathbf{4}) - 2s_{12} \text{tr}(\mathbf{3} \mathbf{4})) (-1/96 \langle 23 \rangle [2] \langle 34 \rangle [1] \langle 24 \rangle \dots \langle 10 \text{ terms} \rangle \dots + 1/24 \langle 34 \rangle [1] \text{tr}(\mathbf{3} \mathbf{4}) \langle 24 \rangle)}{\Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{\langle 32 \rangle (\text{tr}(\mathbf{3} \mathbf{4}) \text{tr}(1 + 2\mathbf{3}) - 2m_t^2 \text{tr}(1 + 2\mathbf{4})) m_t (1/32 \langle 24 \rangle \langle 13 \rangle [1] \langle 24 \rangle [1] \dots \langle 3 \text{ terms} \rangle \dots + 1/48 [12] \langle 13 \rangle [4] [2] [14])}{\Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{\langle 32 \rangle m_t (\text{tr}(1 + 2\mathbf{3}) \text{tr}(1 + 2\mathbf{4}) - 2s_{12} \text{tr}(\mathbf{3} \mathbf{4})) (1/96 \text{tr}(\mathbf{3} \mathbf{4}) \langle 13 \rangle [1] [14] - 1/96 \langle 23 \rangle [4] [13] [4] [2])}{\Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{(\text{tr}(\mathbf{3} \mathbf{4}) \text{tr}(1 + 2\mathbf{3}) - 2m_t^2 \text{tr}(1 + 2\mathbf{4})) m_t^2 (s_{123} - m_t^2) (-1/32 \langle 31 \rangle \langle 24 \rangle \langle 24 \rangle [1] + 1/48 \langle 23 \rangle [4] [2] \langle 34 \rangle - 1/32 \langle 24 \rangle [2] \langle 32 \rangle \langle 24 \rangle + 1/48 m_t^2 \langle 32 \rangle \langle 24 \rangle)}{\langle 12 \rangle \Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{1/48 \langle 23 \rangle [4] \langle 34 \rangle [2] (\text{tr}(\mathbf{3} \mathbf{4}) \text{tr}(1 + 2\mathbf{3}) - 2m_t^2 \text{tr}(1 + 2\mathbf{4})) m_t^2 (s_{123} - m_t^2)}{\langle 12 \rangle \Delta_{12|3|45} \Delta_{12|3|45}^2} + \\
& \frac{m_t (-1/24 \langle 34 \rangle [2] \langle 23 \rangle [4] \langle 12 \rangle \langle 23 \rangle [1] \dots \langle 47 \text{ terms} \rangle \dots + 1/12 [24] \langle 32 \rangle \langle 13 \rangle [4] [2] \langle 24 \rangle [1])}{\langle 12 \rangle \Delta_{12|3|45}^2} + \\
& \frac{m_t (-5/24 \text{tr}(\mathbf{3} \mathbf{4}) \langle 24 \rangle \langle 23 \rangle [1] \langle 34 \rangle [1] \dots \langle 11 \text{ terms} \rangle \dots + 1/8 \langle 23 \rangle [4] [2] \text{tr}(\mathbf{3} \mathbf{4}) \langle 14 \rangle \langle 31 \rangle)}{\langle 12 \rangle \Delta_{12|3|45}^2} + \\
& \frac{(-1/24 \langle 23 \rangle [4] [2] \text{tr}(\mathbf{3} \mathbf{4}) \langle 32 \rangle [2] \langle 34 \rangle \dots \langle 13 \text{ terms} \rangle \dots + 1/24 \langle 34 \rangle \langle 12 \rangle \langle 23 \rangle [2] \langle 23 \rangle [1] \text{tr}(\mathbf{3} \mathbf{4}))}{\langle 12 \rangle \Delta_{12|3|45}^2} + \\
& \frac{\langle 23 \rangle [4] [2] \langle 34 \rangle (1/12 m_t^2 \text{tr}(\mathbf{3} \mathbf{4}) - 1/6 m_t^4 - 1/24 \text{tr}(\mathbf{3} \mathbf{4}) \langle 13 \rangle [1] - 1/24 \text{tr}(\mathbf{3} \mathbf{4}) \langle 23 \rangle [2])}{\langle 12 \rangle \Delta_{12|3|45}^2} + \\
& \frac{m_t (-1/3 m_t^2 \langle 31 \rangle \langle 23 \rangle [4] [1] \langle 34 \rangle [1] \dots \langle 12 \text{ terms} \rangle \dots + 1/6 m_t^2 \langle 23 \rangle [4] \langle 14 \rangle [1] \langle 34 \rangle [1])}{\langle 12 \rangle [12] \Delta_{12|3|45}^2} + \\
& (12345 \rightarrow \overline{21345})
\end{aligned}$$