

$$\mathcal{D}_{\mu}^{(2)} =$$

The equation shows four Feynman diagrams representing the second-order contribution to the divergence of the axial current, $\mathcal{D}_{\mu}^{(2)}$. The diagrams are summed together.

- Diagram 1:** A fermion loop with two external wavy lines. The loop contains two vertices labeled Ψ_a^\dagger and Ψ_b on the left, and Ψ_a and Ψ_b^\dagger on the right. Arrows indicate a clockwise flow.
- Diagram 2:** A fermion loop with two external wavy lines. The loop contains two vertices labeled Ψ_b^\dagger and Ψ_a on the left, and Ψ_b and Ψ_a^\dagger on the right. Arrows indicate a clockwise flow.
- Diagram 3:** A fermion loop with two external wavy lines. The loop contains two vertices labeled Ψ_a^\dagger and Ψ_b on the left, and Ψ_a and Ψ_b^\dagger on the right. Arrows indicate a clockwise flow.
- Diagram 4:** A fermion loop with two external wavy lines. The loop contains two vertices labeled Ψ_b^\dagger and Ψ_a on the left, and Ψ_b and Ψ_a^\dagger on the right. Arrows indicate a clockwise flow.