

Diagrammatic equation showing the decomposition of a triangle diagram into two terms:

Left side (Triangle Diagram):

- External momentum (top): $-\Omega, -p$
- External momentum (bottom): Ω, p
- Internal loop (shaded blue triangle)

Right side (Sum of two diagrams):

Term 1 (Left):

- External momentum (top): $\psi_{\alpha-}^\dagger$
- External momentum (bottom): $\psi_{\alpha+}^\dagger$

Term 2 (Right):

- External momentum (top): $-\Omega, -p$
- External momentum (bottom): Ω, p
- Internal loop (shaded blue triangle)
- Internal momentum (dashed line): $\omega - \Omega, k$
- Internal momentum (top-left): $-\omega, -k - p$
- Internal momentum (bottom-left): $\omega, k + p$

The equation is represented as:

$$\text{Triangle Diagram} = \text{Term 1} + \text{Term 2}$$