

$$\begin{aligned}
 -\Sigma &= \text{Diagram 1} + \text{Diagram 2} + \text{Diagram 3} + \text{Diagram 4} + \dots
 \end{aligned}$$

The diagrams are Feynman diagrams representing self-energy corrections to a fermion line.

- Diagram 1:** A fermion line with an incoming line from the left and an outgoing line to the right, both labeled with the index 3. A wavy line (representing a scalar or photon) connects the fermion line to a fermion loop. The loop is labeled with the index 4.
- Diagram 2:** A fermion line with an incoming line from the left and an outgoing line to the right, both labeled with the index 3. A wavy line connects the fermion line to a fermion loop. The loop is labeled with the index 4.
- Diagram 3:** A fermion line with an incoming line from the left and an outgoing line to the right, both labeled with the index 3. A wavy line connects the fermion line to a fermion loop. The loop is labeled with the index 4.
- Diagram 4:** A fermion line with an incoming line from the left and an outgoing line to the right, both labeled with the index 3. A wavy line connects the fermion line to a fermion loop. The loop is labeled with the index 4.