

$$-\Sigma_{12} = \delta_{12} \left(\text{Diagram 1} \right) + \text{Diagram 2} + \text{Diagram 3} + \text{Diagram 4} + \dots$$

The equation shows the expansion of $-\Sigma_{12}$ in terms of Feynman diagrams. The first term is δ_{12} multiplied by a large parenthesis containing the first diagram.

Diagram 1 (inside parenthesis): A horizontal line with a vertex labeled 2. From this vertex, a vertical wavy line goes up to a vertex labeled 3. From vertex 3, a circular loop with two arrows (one clockwise, one counter-clockwise) is attached. The loop returns to vertex 3.

Diagram 2: A horizontal line with vertices labeled 1 and 2. A wavy line connects vertex 1 to vertex 2.

Diagram 3: A horizontal line with vertices labeled 1 and 2. A wavy line goes up from vertex 1 to a vertex labeled 3. From vertex 3, a loop with two arrows connects to a vertex labeled 4. From vertex 4, a wavy line goes down to vertex 2.

Diagram 4: A horizontal line with vertices labeled 1, 4, 3, and 2 in order. Wavy lines connect 1 to 4, 4 to 3, and 3 to 2. Arrows on the horizontal segments point from 1 to 4, 4 to 3, and 3 to 2.