

$$\begin{aligned}
 \Gamma_{123}^{(3)} = & \delta_{123} \left(\text{Diagram 1} \right) + \delta_{23} \left(\text{Diagram 2} \right) + \text{Diagram 3} \\
 & + \delta_{23} \left(\text{Diagram 4} \right) + \text{Diagram 5} + \dots
 \end{aligned}$$

The diagrams are Feynman diagrams representing terms in a perturbative expansion.

 - **Diagram 1:** A vertex labeled 1 with an incoming wavy line and two outgoing straight lines.

 - **Diagram 2:** A vertex labeled 1 with an incoming wavy line, a loop (curved lines with arrows) connecting it to a vertex labeled 4, and a wavy line connecting vertex 4 to a vertex labeled 2. Vertex 2 has two outgoing straight lines.

 - **Diagram 3:** A vertex labeled 1 with an incoming wavy line and two outgoing straight lines. One of these straight lines connects to a vertex labeled 3, and the other connects to a vertex labeled 2. Vertices 2 and 3 are connected by a wavy line.

 - **Diagram 4:** A vertex labeled 1 with an incoming wavy line, a loop connecting it to vertex 4, a wavy line connecting vertex 4 to vertex 5, a loop connecting vertex 5 to vertex 6, and a wavy line connecting vertex 6 to vertex 2. Vertex 2 has two outgoing straight lines.

 - **Diagram 5:** A vertex labeled 1 with an incoming wavy line and two outgoing straight lines. One straight line connects to vertex 3, and the other connects to vertex 2. Vertices 2 and 3 are connected by a wavy line. This wavy line has a loop (curved lines with arrows) attached to it, with vertices 4 and 5 on the loop.