

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

The image shows a series of Feynman diagrams representing a perturbative expansion. The first term is  $\delta_{12}$  multiplied by a diagram consisting of a horizontal line with a vertex labeled 2, from which a vertical wavy line extends upwards to a loop with a vertex labeled 3. The subsequent terms are added to this. The second term is a diagram with a horizontal line between vertices 1 and 2, with a wavy line loop above it. The third term is a diagram with a horizontal line between vertices 1 and 2, and a loop above it formed by two wavy lines (labeled 3 and 4) and two curved lines with arrows. The fourth term is a diagram with a horizontal line between vertices 1 and 2, and a more complex loop structure above it involving wavy lines and vertices 4 and 3. The series continues with an ellipsis.