

$$1 + \frac{1}{8} \text{ (diagram with two loops on a central vertex)} + \frac{1}{128} \text{ (diagram with two loops on a central vertex)} + \frac{1}{16} \text{ (diagram with three loops in a chain)} + \frac{1}{48} \text{ (diagram with two vertices connected by two loops)} + \dots$$

The image shows a series of Feynman diagrams representing terms in a perturbative expansion. The first term is 1. The second term is 1/8, corresponding to a diagram with a central vertex connected to two loops. The third term is 1/128, corresponding to a diagram with a central vertex connected to two loops. The fourth term is 1/16, corresponding to a diagram with three loops in a chain. The fifth term is 1/48, corresponding to a diagram with two vertices connected by two loops. The series continues with an ellipsis.