

The image shows a Feynman diagram equation. On the left, a tadpole diagram consists of a central circle with two external lines: a top line labeled  $c$  and a bottom line labeled  $d$ . The left side of the circle is labeled  $a$  and the right side is labeled  $b$ . This is followed by an equals sign and a counterterm diagram, which is a single vertical line labeled  $c$  at the top. The mathematical expression for the counterterm is  $\sqrt{\frac{d_a d_b}{d_c}} \delta_{c,d}$ .

$$\begin{array}{c} c \\ | \\ \text{---} \bigcirc \text{---} \\ | \\ d \end{array} \begin{array}{c} a \quad b \end{array} = \sqrt{\frac{d_a d_b}{d_c}} \delta_{c,d} \quad \begin{array}{c} c \\ | \end{array}$$