

Diagram illustrating a Feynman diagram with a central diamond-shaped loop structure. The diagram is labeled with B in a box. The diagram shows a central diamond shape with a horizontal line across it and a central dot. Four external lines extend from the vertices of the diamond. To the right of the diagram, there are two mathematical expressions:

$$\frac{\sqrt{-}}{\sqrt{}}$$

$$\frac{\sqrt{+}}{\sqrt{}}$$

$$B^{\dagger} = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$$