

Diagrammatic equation showing a crossing of two lines (labeled a and b) with a loop correction, equated to a phase factor times the uncrossed lines.

The left side shows a crossing of two lines, labeled a and b . The lines are colored red and teal. A loop correction is shown on the crossing, consisting of two arcs (one red, one teal) connecting the lines.

The right side shows the same crossing, but with a phase factor (phase) applied to the crossing, resulting in two parallel vertical lines labeled a and b .

$$\begin{array}{c} \text{Crossing of lines } a \text{ and } b \text{ with loop correction} \end{array} = (\text{phase}) \begin{array}{c} \text{Parallel lines } a \text{ and } b \end{array}$$