

The diagram illustrates the action of a group element g on a vector $W_a(C)$. On the left, a vertical line representing $W_a(C)$ is shown. A red curved arrow, labeled U_g , indicates a transformation or action on this line. This is equated to a summation over b of $R^b_a(g)$ multiplied by another vertical line representing $W_b(C)$.

$$\begin{array}{c} \text{---} \\ | \\ W_a(C) \end{array} \xrightarrow{U_g} = \sum_b R^b_a(g) \begin{array}{c} \text{---} \\ | \\ W_b(C) \end{array}$$