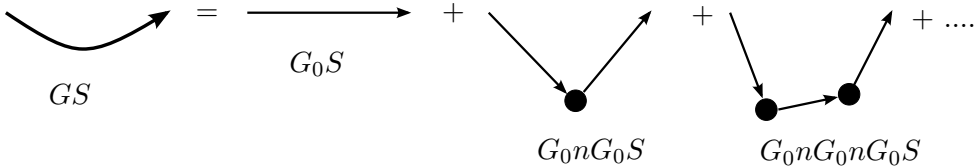


total wave

unperturbed
wave

single scattered
wave

double scattered
wave



The diagram illustrates the expansion of a total wave into unperturbed and scattered components. On the left, a wavy arrow labeled GS represents the total wave. This is followed by an equals sign. To the right of the equals sign is a horizontal arrow labeled $G_0 S$, representing the unperturbed wave. This is followed by a plus sign. Next is a V-shaped diagram with two arrows meeting at a central black dot, labeled $G_0 n G_0 S$, representing a single scattered wave. This is followed by another plus sign. Then is a Z-shaped diagram with three arrows and two black dots, labeled $G_0 n G_0 n G_0 S$, representing a double scattered wave. Finally, there is a plus sign followed by an ellipsis $....$.

$$GS = G_0 S + G_0 n G_0 S + G_0 n G_0 n G_0 S + \dots$$