

The diagram illustrates the Schwinger-Dyson equation for the propagator S . The top part shows the equation: $S = S_0 + \dots$, where S is a horizontal line with a green dot, and S_0 is a horizontal line. The bottom part shows the expansion of the self-energy Σ (represented by a gray box) as a sum of diagrams. The first column shows S_0 followed by Σ followed by S_0 . The second column shows S_0 followed by Σ followed by S_0 followed by Σ followed by S_0 . The diagrams for Σ are shown as a sum of terms: a single green arc, a double green arc, a triple green arc, and so on, representing the expansion of the self-energy in terms of the interaction g .

