

The diagram shows the expansion of the effective vertex $V_{12,eff}$ into a sum of diagrams. The first row shows $V_{12,eff}$ as a shaded oval with four external lines. This is equal to the sum of three diagrams: 1) a vertex with a loop, 2) a vertex with a loop connected to another vertex by a dashed line, and 3) a vertex with a loop connected to another vertex by a dashed line and a self-energy loop. The second row continues the expansion with four more diagrams: 1) a vertex with a loop connected to another vertex by a dashed line, 2) a vertex with a loop connected to another vertex by a dashed line and a self-energy loop, 3) a vertex with a loop connected to another vertex by a dashed line and a self-energy loop, and 4) a vertex with a loop connected to another vertex by a dashed line and a self-energy loop. The expansion ends with an ellipsis.