

FIGURE CAPTIONS

- Figure 1: The Feynman rules for a pure Yang-Mills theory (all momenta flow into the vertices).
- Figure 2: The vector meson self energy graphs.
- Figure 3: The trilinear vector meson vertex corrections.
- Figure 4: The ghost self energy graph.
- Figure 5: The ghost-ghost-vector meson vertex corrections.
- Figure 6: The contribution of the fermions to the vector meson self energy.
- Figure 7: The contribution of the fermions to the trilinear vector meson coupling.
- Figure 8: The lowest order correction to $\Gamma_{0(n)}^{(2)}$
- Figure 9: The canonical quartic scalar coupling for real representations.
- Figure 10: The canonical quartic scalar coupling for complex representations.
- Figure 11: The graphs that contribute to the β -functions for the quartic scalar couplings (the directed lines refer to the complex scalar mesons).
- Figure 12: An illustration of the fixed point trajectories in the α - β coupling constant plane. The cross indicates the presence of an ultraviolet stable fixed point.
- Figure 13: The coupling constant trajectories (α and β move along one of the directed lines as t increases). The gauge group is $SU(6) \times SU(6)$ and the scalars transform according to the $(6 \times \bar{6})$ representation.