

Effective Lagrangian of SU(2) Yang-Mills Theory in the Presence of Fermions

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Abstract: We derive the one-loop effective action of SU(2) Yang-Mills theory in the presence of fermions in the low energy limit. This result is presented by separating the topological degrees, which describe the non-Abelian monopoles from the dynamical degrees of the gauge potential and integrate out all the dynamical degrees and fermions in SU(2) Yang-Mills theory.

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