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Axial anomaly and breaking of chiral symmetry

We study the structure of the QCD vacuum, and its relation with the special gluonic configurations. These non-trivial topological configurations so called instantons. The spontaneous chiral symmetry breaking via QCD axial anomaly will be discussed. We propose an effective model starting from the Maxwell-Chern-Simons theory, where a chiral current generation will be calculated associated to an effective mass term induced by a chiral imbalance. We will address the relationship between the mass generation mechanism and the spontaneous breaking of chiral symmetry.

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