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Analytic solution to equations generalizing the Witten-Veneziano relation, and U(1)_A restoration

A set of equations generalizing the Witten-Veneziano relation is studied. We present an analytic solution thereof which gives results, such as eta and eta' masses and decay constants, in agreement with results previously obtained numerically. The analytic solution improves the understanding of the description of the eta-eta' complex. It also supports our approach to U(1)_A restoration, which links it to the chiral symmetry restoration.

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