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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 η and η' masses and decay constants, in agreement with results previously obtained numerically. The analytic solution improves the understanding of the description of the η - η' complex. It also supports our approach to $U(1)_A$ restoration, which links it to the chiral symmetry restoration.

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