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Electromagnetic and strong anomalies in two-photon decays of pseudoscalar mesons

Manifestations of electromagnetic and strong anomalies axial anomalies in the radiative decays of η and η' mesons are studied. Applying a dispersive approach, we derive the anomaly sum rule for a singlet axial current, where the strong anomaly exists. A low energy theorem is generalized for the case of mixing states and is applied to evaluate a subtraction part of the strong anomaly. We found a relatively small contribution of the strong anomaly to the two-photon decay amplitudes of η and η' mesons.

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