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Role of non-abelian anomaly in transition form factors of π^0, η, η' , generalization for the case of any photon virtuality

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In the framework of the anomaly sum rules approach, based on the dispersion representation of the axial anomaly and the global quark-hadron duality hypothesis, expressions of Transition Form Factors(TFF) for the pseudoscalar mesons are derived. The obtained solutions are taking into account the mixing between $\pi^0 - \eta - \eta'$ and the gluon anomaly term. Within TFF for $\pi^0 - \eta - \eta'$ estimation of the gluon anomaly contribution is performed for the cases of two real photons and one virtual. Correlations between parameters of the vector and axial channels are observed.

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