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Axial Anomaly and Transition Formfactors

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The earlier derived sum rule for the axial current formfactors with one real and one virtual photon is applied for the analysis of meson transition formfactors. The exactness of sum rule at all virtual photon momenta due to t'Hooft principle requires the existence of at least one axial meson which assumes the role of pion in the anomaly description at large momenta squared. The relation between pion and A1 meson formfactors is obtained and applied to the analysis of BABAR data. The possible manifestations of axial anomaly in heavy ions collisions are briefly discussed,

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