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Pion Susceptibilities of the Vacuum in a Modified Global Colour Symmetry Model ZONG Hong-Shi, ^{1,2} WU Xiao-Hua, ^{1,3} DING Xiao-Ping, ¹ LÜ Xiao-Fu^{2,3} and ZHAO En-Guang²

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Abstract: Based on a modified version of the global color symmetry model, the pion susceptibilities of vacuum needed in the QCD sum rule external-field method for the coupling of pseudoscalar current to hadron have bean calculated beyond the vacuum saturation approximation. Comparison with the previous estimations has been given.

PACS: 24.85.+p, 12.38.Lg, 11.15.Pg Key words: nonperturbative QCD, GCM, pion susceptibility

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