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## Nonperturbative corrections and checking of the hypothesis of vacuum dominance

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In this work we explore the nonpertorbative corrections, especcially operator dimension which is connected to existing of short strings, basing on our method: processing of experimental data on  $e^+e^-$ -annihilation into even number of pions (BaBar, CMD-2, OLYA) by constructing the Adler function in two ways (through dispersion representation and through the OPE series), applying the Borel transform, compiling the sum rule, and extracting of nonperturbative corrections. Another task, we check the range of values which coefficient dimension 6, 6, can take, considering the hypothesis of vacuum dominance, and a possibility of other intermediate states, contributing to four-quark condensate included in 6. How other nonperturbative corrections ( $C_2$  and  $C_4$  or gluon condensate) change when the additional contribution of intermediate states is taken into account? It is shown that values of quark condensate that are not more than 1.2 times higher than the average obtained value, which corresponds to the available data, but not 2 or 1.5 times, are acceptable. In this case,  $C_4$  takes values close to the previously known ones, while  $C_2$  is compatible to zero or negative.

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