

# A new evaluation of $a_\mu^{SM}$ to be deviated from the world averaged $a_\mu$ by 1.6 $\sigma$ is achieved by novel approach.

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The elaborated Unitary and Analytic models of pseudoscalar meson nonet structure, and to some extent also of nucleons, give more precise theoretical prediction for the hadronic contribution  $\Delta\alpha_h ad^{(5)}(t)$  to the running fine structure constant QED  $\alpha(t)$  in space like region, which by the novel approach leads to the following complete SM muon anomalous magnetic moment value  $a_\mu^{SM} = (11659196.35 \pm 481) \times 10^{-10}$ . This result deviates from the world average experimental value  $a_\mu^{exp} = (11659209 \pm 6) \times 10^{-10}$  by  $12.65 \pm 7.69$ , i.e.  $1.6\sigma$ .

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