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Scalar meson $f_0(500)$ from the analysis of pion scalar form factor and the correct S-wave isoscalar $\pi\pi$ phase shift data

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In the recently elaborated fully solvable mathematical problem to be concerned of a finding of an explicit form of the pion scalar form factor the inaccurate experimental information in the elastic region on the S-wave isoscalar $\pi\pi$ phase shift, is replaced by the data with theoretical errors to be generated by the Garcia-Martin-Kaminski-Pela'ez-Yndurain Roy-like equations and as a result the most precise parameters of the $f_0(500)$ scalar meson are determined in the framework of the pion scalar form factor analysis.

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