

Cross section measurement for pion pair production in e^+e^- annihilations with CMD-3 detector

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We present the new measurement of the cross section of $e^+e^- \rightarrow \pi^+\pi^-$ process in the center of mass energy range from 0.32 to 1.2 GeV. The measurement is based on analysis of more than 30 million pion pairs collected by CMD-3 detector at VEPP-2000 collider (Novosibirsk). We discuss the design of experiment, the key elements of data analysis, the comparison of our result with existing measurements and its impact on the Standard Model evaluation of muon ($g-2$).

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