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Study of 4 charged pion production at VEPP 2000 collider with CMD-3 detector

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A cross section of the process e+ e− ⟶ π + π − π + π − has been measured using an integrated luminosity of 17 pb^{-1} collected with the CMD-3 detector in the center-of-mass energy range 650-1000 MeV. The main goal of this analysis is precise measurement of the cross section. High-precision measurements of various hadronic cross sections are of great interest in connection with the problem of the muon anomalous magnetic moment g-2. The e+ e− ⟶ π + π − π + π − can be used to test the conservation of vector current (CVC) hypothesis, which predicts a relation between the e+ e− ⟶ π + π

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