The study of the ω-meson conversion decays with the CMD-2 detector at VEPP-2M collider

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The large statistical sample about 3.4 pb^{-1} in the 720 — 840 MeV c.m. energy range was collected at VEPP-2M collider with CMD-2 detector in 2000. It corresponds to an $1.8 \cdot 10^6$ ω meson decays. This data sample was used to study the ω meson conversion decays. The measured branching ratio for $\omega \to \pi^0 e^+ e^-$ decay agrees with previous result of the ND detector but has about two times better accuracy. The upper limits for decays $\omega \to \eta e^+ e^-$ and $\rho \to \pi^0 e^+ e^-$ were obtained for the first time.

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