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Study of the conversion decays of omega meson into pi0 meson and e+e- pair with the CMD-3 detector

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The interest in the decay omega -> pi0 e+ e- is related to the transition formfactors of the omega meson that can be measured in this decay. The precise value of the decay branching ratio can be useful for interpretation of experiments on quark-gluon plasma. The conversion decay omega into pi0 e+ e- has been studied at the energy range 720 —840 MeV at the center of mass using about 10 1/pb of data recently collected with the CMD-3 detector at the VEPP-2000 accelerator in Novosibirsk. This data sample is three times larger than previously used at the former CMD-2. The visible cross section of the process omega -> pi0 e+ e- was measured. The preliminary branching ratio of this decay was determined. The status of the analysis will be presented.

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