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Recent results from CMD-3 detector at VEPP-2000 collider

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Regular data taking with the CMD-3 detector at the VEPP-2000 electron-positron collider in Novosibirsk is underway since 2010. The luminosity up to 10^{31} cm⁻²s⁻¹ has been reached at the energy $2E=2$ GeV, and another order of magnitude will be achieved after construction of the new positron source.

The already collected physical data sample corresponds to about 60 inverse picobarns of integrated luminosity in the energy range from ϕ -meson up to 2 GeV and currently the first scan from 2 pion threshold up to 1 GeV with about 6 pb⁻¹ has been performed to get a new precision measurement of the $e^+e^- \rightarrow \pi^+\pi^-$ cross section. Preliminary results on cross sections of a number of multi-hadron final states from the CMD3 detector is reported. The obtained results are in good agreement with previous experiments and have a comparable or better statistical precision.

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