

# Recent results of the hadronic cross section measurements with the CMD-3 detector

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## Collaboration

CMD-3 collaboration

## Abstract content

In 2017-2018 the CMD-3 detector continued collecting data at the electron-positron collider VEPP-2000. After upgrading the positron injection facility, an average luminosity increased by a factor of three. In 2017 the scan was performed in the center-of-mass energy range from 1 to 2 GeV while in 2018 we scanned the energy region below 1 GeV to measure the pion form factor and omega meson parameters more accurately. The beam energy was monitored continuously during data taking with precision about 100 keV using Compton backscattering techniques. The analysis of the collected data confirmed our previous result - sharp behavior of the six pion cross section near the threshold for nucleon-antinucleon pair production. In addition, we observed for the first time a similar anomaly in the cross section for the process  $e^+e^- \rightarrow K^+K^-\pi^+\pi^-$  in the same energy region. Preliminary results for some other hadronic channels are also presented.

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