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Study of the hadronic reactions at the NNbar threshold in the e+e- collision

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The CMD-3 detector at the e+e- VEPP200 collider has accumulated ahout 500 pb-1 of the integrated luminosity in the energy region Ec.m.=1–2 GeV, with a special attention to the fine-step scanning of the NNbar threshold. An abnomal behavior of the hadronic cross sections in this reagion was shown previously. In particular, the e+e- -> 6pions cross section demonstrates a sharp 30% drop in the scale of about 1 MeV, comparable with the mass difference in threshold for the proton-antiproton and neutron-antineutron production. In the talk we present an overview of the previous measurements and the latest preliminary results of the fine-step study at the threshold region for the e+e- -> 6pions reaction and other hadronic reactions. Only few of them demonstrate the abnormal behavior.

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