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Measurement of the hadronic cross sections with the CMD-3 and SND detectors at the VEPP-2000 collider

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Since December 2010 the CMD-3 and SND detectors collect data at the VEPP-2000 electron-positron collider. In 2013-2015 the injection facility of the collider has undergone an upgrade of the injection system. The new BINP injection complex has been connected to the VEPP-2000 collider, so the restrictions connected to the lack of positrons and limited beam energy transfer do not apply any more. The collider luminosity in whole energy range is restricted now only by beam-beam effects. A maximal beam-beam parameter value ξ achieved is about 0.12. VEPP-2000 collider started to collect data with two detectors at 2016 year. The collected data sample since 2010 corresponds more than 100 pb^{-1} of integrated luminosity per detector in the c.m. energy between 0.32 and 2 GeV . We will report here results of analysis of various hadronic cross sections from detectors both published and preliminary. These measurements are important by themselves and also because of the implications for anomaly of the magnetic moment of a muon ($g - 2$) discrepancy.

Topic:

Topic: High Energy Particle Physics

Summary

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