



Contribution ID : 166

Type : Oral talk

Recent results on the studies of the e^+e^- annihilation into hadrons with the SND detector at VEPP-2000 collider

Friday, 30 October 2026 12:35 (15)

Our studies are based on the 1 fb^{-1} data, acquired by the SND detector with e^+e^- -collisions at VEPP-2000 in the $\sqrt{s}=0.3\text{--}2 \text{ GeV}$ energy range. We present the results of high precision measurements of the $e^+e^- \rightarrow \pi^+\pi^-$ and $e^+e^- \rightarrow \pi^+\pi^-\pi^0$ cross sections and their implications to the calculation of the Hadronic Contribution to the Muon ($g-2$). Also we report the results of the analysis of the $e^+e^- \rightarrow \pi^0\gamma$ and $e^+e^- \rightarrow \eta\gamma$ radiative processes near mass of the ϕ -meson, the study of the cross sections of $e^+e^- \rightarrow n\bar{n}$ and $e^+e^- \rightarrow \omega\eta\pi^0\pi^0$ processes, the dalitz analysis of the $e^+e^- \rightarrow \pi^+\pi^-\pi^0$ process at the energy range $\sqrt{s}=1.05\text{--}2 \text{ GeV}$ and the measurement of the inclusive hadronic cross section for the processes with charged particles in the final state at $1.8 \text{ GeV} < \sqrt{s} < 2 \text{ GeV}$.

Primary author(s) : Mr. KUPICH, Andrey (BINP)

Presenter(s) : Mr. KUPICH, Andrey (BINP)

Session Classification : High energy physics: experiment

Track Classification : High energy physics: experiment