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Measurement of hadron form factor of pair production cross section in e^+e^- annihilations at BESIII

Using a data set of 2.9/fb taken at a center-of-mass energy of $\sqrt{s} = 3.773$ GeV with the BESIII detector at the BEPCII collider, the $e^+e^- \rightarrow \pi^+\pi^-$ cross section in the energy range between 600 MeV and 900 MeV is extracted using the method of Initial State Radiation. The cross section is measured and the pion Form factor is extracted. We also calculate its contribution to the hadronic vacuum polarization of $(g-2)_\mu$.

In addition, we measure the cross sections of $e^+e^- \rightarrow p\bar{p}$ and $e^+e^- \rightarrow \Lambda_c^+\Lambda_c^-$. This data can be used to extract hadron form factors and to understand the final interaction between hadron pairs.

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