



XLVII International Symposium on  
Multiparticle Dynamics (ISMD2017)

September 11-15, 2017, Tlaxcala City, Mexico

Contribution ID : 86

Type : not specified

## Measurements of Hadronic Form Factors at BESIII

*Monday, 11 September 2017 15:20 (0:25)*

### Content

The measurements of hadronic form factors using the data samples collected with the BESIII detector at BEPCII collider are presented. The cross section of  $e^+e^- \rightarrow p\bar{p}$  at 12 energies from 2232.4 to 3671.0 MeV are measured, the electromagnetic form factor is deduced, and the ratio  $|G_E/G_M|$  is extracted by fitting the polar angle distribution. The cross section of  $e^+e^- \rightarrow \pi^+\pi^-$  between effective center-of-mass energy 600 and 900 MeV is measured by the ISR return method using the data set with the integrated luminosity of  $2.93 \text{ fb}^{-1}$  taken at  $\psi(3773)$  peak, the pion form factor  $|F_\pi|^2$  is extracted. The other preliminary results about the form factors of  $e^+e^- \rightarrow \Lambda\bar{\Lambda}$ ,  $\Lambda_c^+\bar{\Lambda}_c^-$ ,  $K^+K^-$ , and the measurement of the resonant parameters of  $J/\psi$  will also be mentioned.

### Session

Proton structure, small and large x physics

**Primary author(s) :** Prof. HU, Haiming (Institute of High Energy Physics, CAS, China)

**Presenter(s) :** Prof. HU, Haiming (Institute of High Energy Physics, CAS, China)

**Session Classification :** Proton structure, Small and large x physics (I)