

# Amplitude analysis at BESIII

## Content

BESIII (Beijing Spectrometer) is a general purpose  $4\pi$  detector at the upgraded BEPCII (Beijing Electron and Positron Collider) that operated in the  $\tau$ -charm threshold energy region[1]. Since 2009, it has collected the world's largest data samples of  $J/\psi$ ,  $\psi(3686)$ ,  $\psi(3770)$  and  $\psi(4040)$  decays. More recently, data were taken in the energy region above 4 GeV, where energies up to about 4.6 GeV are accessible. These data are being used to make a variety of interesting and unique studies of light hadron spectroscopy, charmonium spectroscopy, high-statistics measurements of charmonium decays and D meson decays.

Amplitude analyses of  $J/\psi$  radiative decays, the spin-parity determination of  $Z_c(3900)$ , as well as amplitude analyses of charm meson decays will be reported.

## Summary

**Primary author(s) :** Dr. LIU, Beijiang (Institute of High Energy Physics, CAS)

**Presenter(s) :** Dr. LIU, Beijiang (Institute of High Energy Physics, CAS)