

01 SPECTROSCOPY

X Y Z particles at BABAR

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摘要 This paper intends to shortly summarize the recent results on Spectroscopy, published from the BABAR Collaboration. The BABAR experiment is a B-factory, at SLAC, where asymmetric energy beams of electron-positron are accelerated and collide at the energy in the center of mass of $Y(4S)$. In 9 years of data taking, BABAR had collected 433 fb^{-1} equivalent luminosity on-peak-data at the $Y(4S)$ energy, 30 fb^{-1} data at the $Y(3S)$ energy, 15 fb^{-1} data at the $Y(2S)$ energy, and a scan around $Y(4S)$ was done, collecting 25 pb^{-1} every 5 MeV. Thanks to the high luminosity achieved, it is possible to perform high precision measurements, and spectroscopy studies. An update on the measurement of the state X (3872) will be given, as final result published by using the whole dataset available. Then, a new preliminary $Y(4260)$ measurement is reported, and the study of the invariant mass $J/\psi \pi^+ \pi^-$ in ISR events is shown, where no evidence of the state $Y(4050)$ is highlighted. As conclusion, the results on the angular distribution analysis performed on the state $Z(4430)$ are reported.

关键词 [spectroscopy](#), [charmonium](#), [BABAR](#)

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