N^* and Meson Resonances in J/ψ decays

B.S.Zou[a]

[a] *Institute of High Energy Physics, Chinese Academy of Sciences, P.O.Box 918 (4), Beijing 100039, P.R.China*

The Institute of High Energy Physics at Beijing runs an electron-positron collider (BEPC) with a general purpose solenoidal detector, the BEijing Spectrometer (BES), which is designed to study exclusive final states in e^+e^- annihilations at the center of mass energy from 2000 to 5600 MeV. In this energy range, the largest cross sections are at the $J/\psi(3097)$ and $\psi'(3686)$ resonant peaks. Up to now, the BES has collected about 65 million J/ψ events and 18 million ψ' events. J/ψ decays provide an excellent place for studying excited nucleons and hyperons – N^*, Λ^*, Σ^* and Ξ^* resonances, as well as meson resonances, including possible glueballs and hybrids. Physics objectives, recent results and future prospects of light hadron spectroscopy at BEPC will be presented.