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Performance and Perspective of Beijing Electron Positron Collider (15' + 5')

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The Beijing Electron Positron Collider (BEPC) was upgraded as a double-ring factory-like charm-tau collider (BEPCII) with the design luminosity of 1*10^{33}cm^{-2}s^{-1} at 1.89 GeV. Being finished construction and passed the national test and check in 2009, the BEPCII has been operated for high energy physics studies for more than 6 years. The luminosity at the design energy has been steadily enhanced, and its performance was also optimized at various energies the HEP required. A lot of important HEP results, such as the observation of Zc(3900) was done at the BEPCII under its excellent performance. In the meanwhile, the collider is also served as a synchrotron radiation facility with 5 insertion devices for extracting beam lines to synchrotron light users during the past years. Status of the machine and beam performance are described in this talk. Various accelerator physics and technology results and developments have been obtained in the year of BEPCII. The future plan is also discussed in this talk.

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