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BEPCII: Major Upgrade of the Beijing Electron-Positron Collider

The major upgrade of the Beijing Electron-Positron Collider (BEPCII) is one of China's key projects. It is a double ring e⁺e⁻-collider as well as a synchrotron radiation (SR) source with its outer ring, or SR ring. As a collider, BEPCII operates in the beam energy region of 1-2.1 GeV with design luminosity of $1 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ at 1.89 GeV. As a light source, the SR ring operates at 2.5 GeV and 250 mA. Construction of BEPCII started in the beginning of 2004. Installation of the storage ring components completed in October 2007. The BESIII detector was moved to the Interaction Region (IR) on May 6, 2008. The commissioning of BEPCII started in June 2008 together with BESIII detector. The luminosity increased step by step and reached 1/3 of design value in May 2009. During the commissioning and test operation, about 100M $\psi(2S)$ and 200M J/ ψ events were collected. The first physics paper was submitted for publication by BESIII Collaboration in February 2009 based on these data. BEPCII has been in routine operation since November 2009. The construction, commissioning and operation of BEPCII are reported in this poster presentation.

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