

Measurement and correction of coupling with skew quads in BEPCII/BER

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We used only vertical correctors to correct the coupling in the positron ring (BPR) and the electron ring (BER) of BEPCII. However, in recent years, the experience in operation indicated remarkable differences in the corrections of coupling between BEPCII/BER and BEPCII/BPR. In this case, vertical correctors and skew quads were used to make correction of coupling in BEPCII/BER and control the vertical dispersion. Some simulations with SAD program have been performed, and the feasibility was demonstrated with the luminosity optimization in BEPCII.

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