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PO40 - Topup injection in the collision operation of BEPCII and key technology

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“The BEPCII is designed as an e^+/e^- attenuating operational collider. In order to improve the BESIII data acquisition, BEPCII has carried out an upgrade project of topup injection operation of high-energy physics experiments. Based on the injection rate, injection interval, beam lifetime and luminance evolution of e^+ and e^- , the optimized data acquisition time can be calculated. The collision mode topup injection operation has been realized in 2019.

The positron target is the core equipment to realize e^+/e^- beam switching. The positron target has been improved in the case that the positron source system is not expanded. The beam performance index and operation function have reached the expected result.”

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