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Characteristic study of the pulse bump magnet in HEPS

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In the extraction of booster to storage (BTS) for High Energy Photon Source (HEPS), four pulse bump magnets are applied to create a local bump to ease extraction. In this paper, a lot of characteristics of the pulse bump magnet such as magnetic field, eddy current, induced voltage, vibration are introduced and thoroughly discussed. According to measurements, four pulse bump magnets are satisfied with the physical requirements of beams extraction in HEPS.

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Footnotes

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Yes

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