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Study on beam position measurement based on diode-detection in HLS-II

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In order to improve the sensitivity and long-term sta-bility of Hefei Light Source –II (HLS-II) for beam position measurement, it is necessary to improve the meas-urement method. The beam position monitor (BPM) electronics is used to measure the beam position and is an important part of the beam position measurement system. In this paper, we propose a beam position meas-urement system based on the compensated diode detec-tion (CDD) technology for electron storage ring. Since HALF under construction, we used the parameter of HLS-II to design the system and simulate the system circuits to verify its feasibility.

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Footnotes

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