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THE MAGNETIC FIELD MEASUREMENT SYSTEMS FOR Pr₂Fe₁₄B Based CRYOGENIC UNDULATOR AT HEPS

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A new PrFeB cryogenic permanent magnet undulator (CPMU) prototype with 12mm period length is being constructed for High Energy Photon Source (HEPS) at IHEP. HEPS is a new 6 GeV synchrotron radiation light source. Insertion devices play a significant role in achieving the high performance of the photons. The magnetic field performance of the CPMU must be measured in the vacuum chamber and cooled to cryogenic temperature. A dedicated magnetic measurement system including Hall probe measurement bench and stretch wire device has been developed to perform magnetic field measurements of CPMU. This paper describes details of development and improvement of the measurement system.

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