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Constructing a permanent magnet phase shifter

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A permanent-magnet (PM) phase shifter is constructed for a tandem elliptically polarized undulator (EPU) at TPS. To increase a reproducibility of magnetic field and be installed in a limited space, a robust mechanical structure was designed and constructed. To decrease multipole errors and optimize magnetic field, algorithms of magnet sorting and magnetic field shimming were built and performed. The start-to-end for a construction of a PM phase shifter is discussed and explained in detail herein.

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