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Operational experiences of two CPMUs at Taiwan Photon Source

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Cryogenic permanent-magnet undulators (CPMUs) have emerged as a focal point in the development of short-period undulators. At the Taiwan Photon Source (TPS), two 2-meter CPMUs have been developed using different magnet materials and cooling techniques. Spe-cifically, a PrFeB-based CPMU, equipped with cryocooler cooling, and a NdFeB-based CPMU, utilizing liquid nitrogen (LN2) tank cooling, have been developed. These CPMUs are currently stable operating at TPS storage ring under a constant beam current of 500 mA.

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Footnotes

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