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A NbTi persistent current switch for MRI superconducting magnet

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The persistent current switch (PCS) is essential for magnetic resonance imaging magnet (MRI) magnet which works in closed-loop mode. In this paper, the design of NbTi/CuNi thermally triggered PCS is presented. Furthermore, quench test and switching time test have been given at 4.2-K temperature and 0-3 T magnetic field.

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