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Time-reversal symmetry breaking in superconducting $\mathbf{Pr_{1-x}Ce_xPt_4Ge_{12}}$[1] LEI SHU, Physics Department Fudan University, DOUGLAS E. MACLAUGHLIN, Physics Department University of California, Riverside, KEVIN HUANG, M. BRIAN MAPLE, Physics Department University of California, San Diego — Zero-field muon-spin-relaxation (μSR) experiments were performed on the superconductors $Pr_{1-x}Ce_xPt_4Ge_{12}$ ($x < 0.2$). The results reveal the spontaneous appearance of static internal magnetic fields below the superconducting transition temperature (T_c). This observation implies time-reversal symmetry breaking in $Pr_{1-x}Ce_xPt_4Ge_{12}$ ($x < 0.2$) below T_c.

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