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Unusual Muon Spin Relaxation in Hydrated Cobaltite Superconductors SCOTT L. STUBBS, JESS H. BREWER, Univ. of British Columbia, JUN SUGIYAMA, YUTAKA Y. IKEDO, Toyota CRDL, PETER L. RUSSO, TRIUMF, EDUARDO J. ANSALDO, Univ. of Saskatchewan, KIM H. CHOW, Univ. of Alberta, HIROTO OHTA, KAZUYOSHI YOSHIMURA, Dept. of Chemistry, Kyoto Univ. — Muon spin relaxation (μ^+SR) was studied in zero (ZF) and weak transverse magnetic field (TF) in $Na_x(H_3O)_zCoO_2 \cdot yH_2O$ and its deuterated analog. In ZF, the muon relaxes (surprisingly) faster for the deuterated sample. Detectable effects of superconductivity are also surprisingly subtle in both cases.

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