

Abstract Submitted
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Bulk Nuclear Magnetic Resonance of Topological Insulators D.M. NISSON, A.P. DIOGUARDI, J. CROCKER, P. KLAVINS, N.J. CURRO, Dept. of Physics, UC Davis, N. J. CURRO NMR TEAM — Topological insulators are materials that are insulating in the bulk but remain conducting on the surface. We present ^{209}Bi nuclear magnetic resonance (NMR) spectra and relaxation rate data on single crystals of Bi_2Se_3 and $\text{Bi}_2\text{Te}_2\text{Se}$. Our preliminary data reveal significant differences in the local electric field gradient between these two materials, and indicate a large anisotropy in the spin-lattice and spin-spin relaxation rates.

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