## Abstract Submitted for the MAR12 Meeting of The American Physical Society

NMR Studies of the pseudogap in BSCCO-2212 J. CROCKER, A.P. DIOGUARDI, N. APROBERTS-WARREN, A.C. SHOCKLEY, UC Davis, H.-J. GRAFE, IFW Dresden, Z. XU, J. WEN, G. GU, BNL, N.J. CURRO, UC Davis — We present O-17 NMR measurements on a single crystal of overdoped BSCCO-2212 ( $T_c=82K$ ). As a function of temperature we measure the planar oxygen's: resonance linewidths, Knight shift (K), electronic field gradient (EFG), and spin lattice relaxation rate (1/T1) along each principle axis. Our analysis shows that their temperature dependence can be explained by a suppression of the density of states in the pseudogap region  $T < T^* = 94K$ .

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