

Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

The Superconducting Phase Diagram of $V_3Si_{0.98}X_{0.02}$, $X=Ni, Mn, Co, Fe, Cu$ M.D. ALMEIDA, C.P. OPEIL, Boston College, J.C. LASHLEY, J.L. SMITH, Los Alamos National Laboratory — We report on the results of AC Resistivity measurements of $V_3Si_{0.98}X_{0.02}$ in the presence of a magnetic field, where the dopants include Ni, Fe, Mn, Co, and Cu. From this we see a clear shift in the superconducting critical temperature of the materials in response to increasing in field strength. Additionally, dilatometry measurements provide information on the thermal expansion coefficients of these materials.

Marco Almeida
Boston College

Date submitted: 17 Dec 2008

Electronic form version 1.4