

Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Nernst effect in the pnictide superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$
XIGANG LUO, H. SHAKERIPOUR, Département de physique, Université de Sherbrooke, Sherbrooke, Canada, M.A. TANATAR, Ames Laboratory, Ames, Iowa 50011, USA, J.-PH. REID, J. CHANG, F. LALIBERTÉ, N. DOIRON-LEYRAUD, Département de physique, Université de Sherbrooke, Sherbrooke, Canada, N. NI, S.L. BUD'KO, P.C. CANFIELD, R. PROZOROV, Ames Laboratory, Ames, Iowa 50011, USA; Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011, USA, LOUIS TAILLEFER, Département de physique, Université de Sherbrooke, Sherbrooke, Canada, DÉPARTEMENT DE PHYSIQUE, UNIVERSITÉ DE SHERBROOKE, SHERBROOKE, CANADA TEAM, AMES LABORATORY, AMES, IOWA 50011, USA COLLABORATION, DEPARTMENT OF PHYSICS AND ASTRONOMY, IOWA STATE UNIVERSITY, AMES, IOWA 50011, USA COLLABORATION — In an attempt to shed light on the electronic transformations that pnictide superconductors undergo in different regions of their phase diagram, we have measured the Nernst effect of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ as a function of Co concentration. The data is presented and analyzed in terms of its two contributions, from superconducting fluctuations and normal-state quasiparticles, respectively.

Xigang Luo
Département de physique,
Université de Sherbrooke, Sherbrooke, Canada

Date submitted: 27 Nov 2009

Electronic form version 1.4