

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

The low-temperature specific heat of Co-doped BaFe₂As₂ JIUNN-YUAN LIN, Institute of Physics, National Chiao Tung University, Hsinchu 30010, Taiwan — We have measured the low-temperature specific heat of Ba(Fe_{1-x}Co_x)₂As₂ ($x=0,0.08,0.2$) single crystals. The electronic specific heat of Ba(Fe_{0.92}Co_{0.08})₂As₂ in the superconducting state with $T_c=21$ K is revealed. A T^2 term was observed at low temperatures, providing the evidence of nodes in the gap. Furthermore, the data suggest a multi-gap feature for Ba(Fe_{0.92}Co_{0.08})₂As₂. The mixed state data will also be reported.

Jiunn-Yuan Lin
Institute of Physics, National Chiao Tung University, Hsinchu 30010, Taiwan

Date submitted: 16 Dec 2010

Electronic form version 1.4