

Abstract Submitted
for the MAR06 Meeting of
The American Physical Society

Photoemission study on core levels of Na_xCoO_2 JIHUA MA, Department of Physics, Boston College, Chestnut Hill, MA 02467, HONGBO YANG, Condensed Matter Physics & Material Science Department, Brookhaven National Laboratory, Upton, NY 11973, ZHIHUI PAN, Department of Physics, Boston College, Chestnut Hill, MA 02467, A.V. FEDOROV, Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, R. JIN, B.C. SALES, D. MANDRUS, Condensed Matter Science Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831, HONG DING, Department of Physics, Boston College, Chestnut Hill, MA 02467 — A Comprehensive study on Na 2p and Co 3p core levels of Na_xCoO_2 is carried out by photoemission. A surface component of Na 2p core level is found. By comparing the surface state and bulk state at different emission angles, different photon energies and different doping levels, we not only extract the electron escape length in this system, but also discover other interesting features.

Jihua Ma
Department of Physics, Boston College, Chestnut Hill, MA 02467

Date submitted: 16 Jan 2006

Electronic form version 1.4