Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

Renormalization of electronic structure close to Fermi level of $CeIrIn_5$ at 20K[1] YINWAN LI, TOMASZ DURAKIEWICZ, JOHN J. JOYCE, KEVIN S. GRAHAM, JOHN L. SARRAO, ERIC D. BAUER, Los Alamos National Laboratory, CLIFFORD G. OLSON, Ames Lab., Iowa State University — The electronic structure of heavy-fermion superconductor $CeIrIn_5$ is investigated at $\sim$20K by high-resolution angle-resolved photoemission (ARPES). The low energy ARPES spectra indicate a kink near the Fermi surface within the energy scale of the order of 20meV. Existence of a kink may suggest coupling of electron to a collective boson mode of unknown origin.

[1]Research supported by DOE BES and LANL LDRD.

Yinwan Li
Los Alamos National Laboratory

Date submitted: 21 Nov 2008 Electronic form version 1.4