Abstract for an Invited Paper
for the MAR09 Meeting of
The American Physical Society

Antiferromagnetic Correlation and the Pairing Mechanism of the Cuprates and Iron Pnictides: a View From
the Functional Renormalization Group Studies\textsuperscript{1}
DUNG-HAI LEE, U.C. Berkeley

We study the pairing symmetry of the iron pnictide superconductor using the functional renormalization group method. By comparing the results for the cuprates and the iron pnictides a coherent picture emerges. It suggests that antiferromagnetic correlation causes pairing for both materials. In collaboration with Fa Wang, Hui Zhai, Ying Ran, and Ashvin Vishwanath, University of California, Berkeley.

\textsuperscript{1}Work supported by DOE.