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Doping-dependence of Scattering Interference in Cuprates KAZUHIRO FUJITA, MOHAMMAD HAMIDIAN, INES FIRMO, SOURIN MUKHOPADHYAY, Cornell University, HIROSHI EISAKI, National Institute of Advanced Industrial and Science Technology, SHIN-ICHI UCHIDA, University of Tokyo, J.C. DAVIS, Cornell University — Evolution of the k-space electronic structure from the strongly underdoped to overdoped regime upon doping is studied. At the doping level coincident with the disappearance of the pseudogap phenomenology a crossover in the scattering processes is identified [1]. We discuss the significance of such transition in conjunction with other experimental facts.

[1] K. Fujita, M. Hamidian, I. A. Firmo, S. Mukhopadhyay, H. Eisaki, S. Uchida, and J. C. Davis *Submitted* (2011).

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