

Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

Possible Weak Ferromagnetism in Time Reversal Violating State of Underdoped Cuprates VIVEK AJI, CHANDRA VARMA, University of California, Riverside — Recent polar Kerr effect measurements on underdoped YBCO have provided evidence for time reversal symmetry breaking near the pseudogap temperature. These results are consistent with the existence of a ferromagnetic moment of order 10^{-4} Bohr magneton along the c-axis. We discuss the conditions for the possible occurrence of ferromagnetism with moments perpendicular to the Copper-Oxide planes, accompanying the loop current orbital magnetic order, in the underdoped phase of Cuprates.

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Date submitted: 26 Nov 2007

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