

Abstract Submitted
for the APR14 Meeting of
The American Physical Society

Induced magnetic moment in effective models of quarks in a magnetic field¹ EFRAIN J. FERRER, The University of Texas at El Paso — The generation of magnetic moment condensates in NJL-type effective models of quarks in the presence of a magnetic field is investigated. It will be shown how for particle-antiparticle pairs, the magnetic moment condensate significantly increases the critical temperature for chiral restoration. For diquark pairs, it will be proved that the magnetic moment condensate enhances the condensation energy and the system magnetization.

¹This work has been supported in part by DOE Nuclear Theory grant de-sc0002179

Efrain J. Ferrer
The University of Texas at El Paso

Date submitted: 10 Jan 2014

Electronic form version 1.4