

Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Magneto-Response Of Graphene N.J.M. HORING, Stevens Institute of Technology, V. FESSATIDIS, Fordham University, J.D. MANCINI, Kingsborough College of CUNY — We determine the dielectric polarizability of graphene in a perpendicular magnetic field inducing Landau quantization, taking account of arbitrary temperature dependence. The result is expressed in terms of a tractable integral representation involving only elementary functions (which generate the Landau-quantized eigenfunction representation).

Vassilios Fessatidis
Fordham University

Date submitted: 19 Nov 2009

Electronic form version 1.4