

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

Kronig-Penney Model of Graphene in a Magnetic Field of Arbitrary Strength NORMAN HORING, Stevens Inst. Tech., SINA BAHRAMI, Stevens Inst. Tech — We address the magneto-dynamics of a 2D graphene sheet with a one dimensional periodic array of quantum wires, using a Kronig-Penney type model. In particular we examine the role a normal magnetic field inducing Landau quantization effects in terms of a closed form integral representation involving only elementary functions which incorporates the full spectrum of magnetic-quantized graphene states and energies.

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Date submitted: 17 Nov 2010

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