

# Erratum: Dense (2+1)-dimensional QED in an external magnetic field [JETP Lett. 55, No. 12, 703–706 (1992)]

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There is an error, for which the author is responsible. Expression (7) should be  $\rho(B, \mu) = (eB/4\pi) + n(eB/2\pi)$ , where  $n = 1 + [\mu^2 - m^2/2eB]$  for  $\mu > m$ ,  $n = 0$  for  $|\mu| < m$ , and  $n = -[\mu^2 - m^2/2eB]$  for  $\mu < -m$ . The medium is neutral if  $\mu = -(m^2 + 2eB)^{1/2}$ , and the single-loop effective Lagrangian in neutral QED<sub>2+1</sub> is  $L^{\text{eff}} = [(e^2/m)(B^2/24\pi)] - (|eB|/4\pi)(m^2 + 2|eB|)^{1/2}$ . It follows from the latter expression that the magnetization is  $M(B) \approx -(|em|/4\pi) \text{sign } B$ , and that the magnetic field in the system,  $B$ , is given as a function of the external field  $H$  by  $H = B + (|em|/4\pi) \text{sign } B$ . This result corresponds to the Meissner effect.