Vorticity quantum numbers for confined electrons

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Due to a technical problem occurred in production, in figs. 1 and 2 the minus signs were missing. We publish here again the correct figures sincerely apologizing to the authors for the unpleasant inconvenience.

Fig. 1 – Energy spectrum of a negatively charged particle in a square in homogeneous magnetic field H as a function of the applied flux $\phi = HS$; S is the area of the square, $\phi_0 = h/|e|c$ is the normal flux quantum and $E_0 = \hbar^2/2mS$.

Fig. 2 – Low-energy region of the spectrum of eigenstates of symmetry A (full lines) and the corresponding diagram of diabatic states levels (dashed lines). Vorticity numbers are indicated at each level.