ERRATA

New Low Density Phase of Interacting Electrons: The Paired Electron Crystal [Phys. Rev. Lett. 69, 2555 (1992)]

K. Moulopoulos and N. W. Ashcroft

References in paragraphs 3, 4, and 6, and in the abstract to $L=0$ spin-singlet rotational pairs should be to $S=0$ spin-singlet orientational pairs, as is apparent from the form of the wave function [Eq. (16)]. In addition, an omission should be corrected; the sentence following Eq. (2) should begin: "We argue in this Letter that within an effective cell treatment a variational calculation which ignores further interpair exchange ...." The point is that a full many-body treatment of pairing (Ref. [4]) developed from the crystalline electrostatic limit and rigorously combining both intra- and intercell exchange readily leads to an effective cell interpretation (the example given). A small contribution to binding also arises from interpair terms but these too can be viewed as effective interactions within the cell picture. If intercell connections are ignored entirely and spherical symmetry imposed on the problem from the outset, then the system is separable and true rotational states ensue (G. V. Shuster and A. I. Kozinskaya, Fiz. Tverd. Tela (Leningrad) **13**, 1240 (1971) [Sov. Phys. Solid State **13**, 1038 (1971)]) but at densities much higher than we have considered. We thank C. Umrigar and M. Taut for discussions on their simulation and analytical estimates for such rotational states.

Observation of Free Flux Flow at High Dissipation Levels in $YBa_2Cu_3O_{7-\delta}$ Epitaxial Films [Phys. Rev. Lett. 70, 998 (1993)]

Milind N. Kunchur, David K. Christen, and Julia M. Phillips

In the abstract there is a phrase within parenthesis, "(thermally activated free flux motion)." This should read instead, "(thermally activated flux flow)."

Commensurate Defect Superstructures in a Langmuir-Blodgett Film [Phys. Rev. Lett. 70, 1267 (1993)]

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As printed the annotation of Fig. 3(a) is incorrect. The value of **u** should be 0.50 nm, not 0.59 nm. The corrected figure is reproduced below.

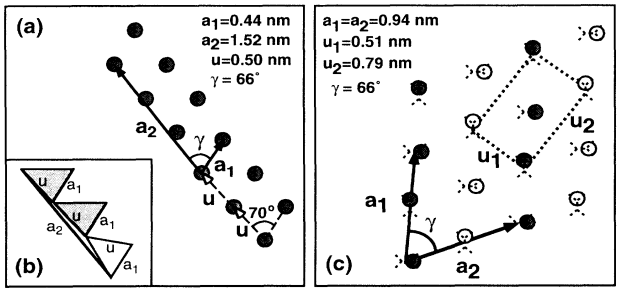

FIG. 3. (a) Unit cell diagram of the 3×1 structure showing the three-molecule unit cell dimensions $\mathbf{a}_1$ and $\mathbf{a}_2$ as well as the positions of molecules within the unit cell given by translations of $\pm\mathbf{u}$. (b) Explicit illustration of how the unit cell can be constructed by inverting every third "local cell," suggesting that a simple packing defect is inserted every three molecules. (c) Unit cell diagram of the 2×2 structure showing the unit cell dimensions $\mathbf{a}_1$ and $\mathbf{a}_2$ as well as the centered rectangular packing (defined by $\mathbf{u}_1$ and $\mathbf{u}_2$) of which the lattice is constructed. The dashed figures represent the hydrocarbon skeleton of each molecule and demonstrate the herringbone nature of local packing. The circles represent the position of the terminal methyl groups, with the light ones being displaced vertically by a chain repeat distance (2.54 Å) relative to the dark ones.