# ERRATA

## Erratum: Superconducting correlations in the one-band Hubbard model with intermediate on-site and weak attractive intersite interactions [Phys. Rev. B 42, 9896 (1990)]

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(1) On the right-hand side of Eq. (4):

(a) The second term should be

$$\sum_{j\neq i} T_{i,j} n^{\alpha}_{i,-\sigma} c_{j,\sigma}.$$

(b) The last term should be

$$2\sum_{j\sigma'} W_{ij} n_{j\sigma'} n^{\alpha}_{i,-\sigma} c_{i\sigma}.$$

(2) The left-hand side of Eq. (6) should be $n^{\alpha}_{i,-\sigma} c_{j\sigma}$.
(3) The last term in Eq. (7) is $\langle c_{i-\sigma} c_{i\sigma}\rangle$ instead of $\langle c_{i-\sigma} c_{j\sigma}\rangle$.
(4) Equation (9) should be corrected to

$$i\dot{d}^{\alpha}_{i\sigma} = \varepsilon_{\alpha} d^{\alpha}_{i\sigma} + \langle n^{\alpha}_{i-\sigma}\rangle \sum_{j\neq i} T_{ij} c_{j\sigma} + 2 d^{\alpha}_{i\sigma} \sum_{j\sigma'} W_{ij} \langle n_{j\sigma'}\rangle + \xi^{\alpha} \sum_{j\neq i} (\langle c_{i-\sigma} c_{j\sigma}\rangle + \langle c_{j-\sigma} c_{i\sigma}\rangle) T_{ij} c^{+}_{i-\sigma}$$

$$- \xi^{\alpha} \sum_{j\neq i} T_{ij} \langle c_{i-\sigma} c_{i\sigma}\rangle c^{+}_{j-\sigma} + \xi^{\alpha} \langle S_{i-\sigma}\rangle c_{i\sigma} + 2\langle n^{\alpha}_{i-\sigma}\rangle \sum_{j\neq i} W_{ij} \langle c_{j-\sigma} c_{i\sigma}\rangle c^{+}_{j-\sigma}.$$

(5) In Eq. (10), the second and the last terms should be

$$n_{\alpha} \varepsilon_k c_{k\sigma} \quad \text{and} \quad 2n \sum_{k'} W_{k'-k} \Lambda_{k'} c^{+}_{-k-\sigma}, \quad \text{respectively.}$$

(6) In Eqs. (14)–(26), all the $W_{k'}$ and $\gamma_{k'}$ should be changed to $2W_{k'-k}$ and $\gamma_{k'-k}$, respectively.

R.R. thanks Dr. T. Domanski and Professor K. Wysokinski for bringing these typos to his attention. Recently, we have numerically solved the main equations of this paper and found that the conclusions of this paper are correct [T. Domanski, K. I. Wysokinski, and R. Ramakumar (unpublished)].

 

# Erratum: Antiferromagnetic excitations and van Hove singularities in $YBa_2Cu_3O_{6+x}$ [Phys. Rev. B 52, R15 741 (1995)]

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In Eq. (4) we have tacitly assumed that the susceptibilities can be obtained as the generalized two-particle propagators. In inelastic neutron scattering (INS) measurements, however, the spins should be localized, and thus Eq. (4) is in error and should read

$$\chi_{Ph}(\mathbf{q},q_z,\omega)=2\{[\chi^{(e,e)}(\mathbf{q},\omega)+\chi^{(o,o)}(\mathbf{q},\omega)]\cos^2(q_z d/2)+[\chi^{(o,e)}(\mathbf{q},\omega)+\chi^{(e,o)}(\mathbf{q},\omega)]\sin^2(q_z d/2)\}. \quad (4)$$

Consequently, the $\chi^{(o,o)}$ term cannot explain the $\sin^2(q_z d/2)$ modulation of the INS measured spectra. This does not affect any other conclusion in the paper.

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