

Errata

Erratum: Hartree-Fock values of L x-ray emission rates
[Phys. Rev. A 10, 1507 (1974)]

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The ratios of the radiative transition rates $L_1O_{2,3}/L_1M_3$ and $L_1P_{2,3}/L_1M_3$ were incorrectly listed in Table I. The corrected nonzero values are listed below in Table I. The remaining entries for these two ratios are zero.

TABLE I. Calculated L_1 ratios.

Z	$L_1O_{2,3}/L_1M_3$	$L_1P_{2,3}/L_1M_3$	Z	$L_1O_{2,3}/L_1M_3$	$L_1P_{2,3}/L_1M_3$
50	0.010 38		73	0.0694	
54	0.0491		77	0.0818	
56	0.0647		82	0.1045	0.003 68
60	0.0629		86	0.1236	0.018 26
62	0.0619		92	0.1545	0.028 70
65	0.0605				
70	0.0588		94	0.1650	0.0305

Erratum: Landau-Ginsburg equations for an anisotropic superfluid
[Phys. Rev. A 9, 2676 (1974)]

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The procedure of generating the current density from the bending energy Eq. (8) by a gauge transformation is incorrect because the free energy contains a contribution

$$-\sum_p 2iK_T \text{curl} \vec{a} \cdot (\vec{A}_p^* \times \vec{A}_p)$$

which is not included in our ($\vec{a}=0$) calculation. This term, which does not contribute to the bending energy, gives rise via Eq. (10) to an orbital current density $-2 \text{Im} \sum_p K_T \text{curl} \vec{A}_p^* \times \vec{A}_p$. The corrected current density agrees with the one given

by Wölfle and Blount.¹ The addition of the above missing contribution to the free energy removes the ambiguity in the current density referred to below Eq. (18). Starting from any one of the possible expressions for the bending energy, which differ by "surface terms," one obtains the same current density

$$\vec{j} = 2 \text{Im} \sum_p [K_L \vec{A}_p^* \text{div} \vec{A}_p + K_T \vec{A}_p^* \times \text{curl} \vec{A}_p - K_T \text{curl}(\vec{A}_p^* \times \vec{A}_p)]$$

if the coupling to the vector potential is included correctly.

¹P. Wölfle, Phys. Lett. 47A, 224 (1974); E. Blount (unpublished).