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Erratum

A Body-Centered Cubic Structure for the Cholesteric Blue Phase

R. M. Hornreich and S. Shtrikman

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This paper contains several algebraic errors which, however, do not affect our conclusions. The following changes should be noted:

Equation (4b):
\[ F_{3II} = \beta (69/4) \sqrt[6]{6} \mu^3 \]

Equation (4c):
\[ F_{3III} = \beta (\mu_0^3 + 9 \mu_0 \mu^2 + 81 \sqrt[6]{6} \mu^3 / 16) \]

Equation (5b):
\[ F_{4II} = \gamma (1497/8) \mu^4 \]

Equation (5c):
\[ F_{4III} = \gamma (\mu_0^4 - 27 \sqrt[6]{6} \mu_0 \mu^3 / 4 + 21 \mu_0^2 \mu^2 + (699/16) \mu^4) \]

Equation (10):
\[ (t^2 - t_1) / t_1 = (529 / 5988) (1 + \Delta), \quad (\Delta \geq -1) \]

Equation (11a):
\[ \beta^2 \leq 10.2 \beta_c^2 \]

Equation (11b):
\[ |\beta| \leq 1.07 (\gamma/c)^{1/2} |d| \]

Equation (17):
\[ \lambda_0 \approx 6.7 (T^*/\Delta T^*)^{1/2} \xi_0 \]

Equation (19b):
\[ \mu_0 = (23 \sqrt[6]{6} / 499) \beta / \gamma = 0.11 \beta / \gamma \]

Note also that the argument (eqs. (12) to (15)) eliminating hexagonal (phase III) ordering is now not sufficient. Numerical analysis, however, confirms that this phase does not appear. Details will be given elsewhere.

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