

Erratum: Large-scale continuous theory of cholesterics [JETP Lett. 29, 357–360 (20 March 1979)]

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The condition $\vec{\nabla}\phi = q_0\mathbf{l}$, as E.I. Kats noted, limits the possible variation of \mathbf{l} . By removing this limitation and introducing a distortion in the form

$$v_s^i = -\vec{\beta} \nabla^i \vec{\alpha} - \nabla^i \phi + q_0 l^i,$$

we again obtain expression (7) for the energy. Equation (7), however, should be varied under one condition

$$q_0 (\text{rot } \mathbf{l})_i = (\text{rot } \mathbf{v}_s)_i - \frac{1}{2} e_{ijk} l^j \nabla^k l^i$$

instead of two conditions (8) and (9). The solutions are found through expansion with respect to $1/q_0$. In zeroth order $\text{rot } \mathbf{l}_0 = 0$, i.e., the layers are equidistant. In the monopole in zeroth order $\mathbf{l}_0(r) = \hat{r}$. In the next order, introducing the variable \mathbf{A} , which is the vector-potential, according to the formula $\mathbf{l} = \mathbf{l}_0 - \mathbf{A}/q_0$, we obtain

$$\mathbf{A} = \hat{\phi} \frac{1 - \cos \theta}{r \sin \theta}, \quad \mathbf{v}_s = 0.$$

Erratum: The nature of D centers in arsenic chalcogenides [JETP Lett. 29, 209–212, (20 February 1979)]

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M.G. Fogel' should be changed to M.G. Foigel'.