

lb

lb

lb



... t, ... FL ... la r a n_{e,0}p a t, ... t, a r - a , r - a ,
 a ... f ... lat, ... f a ... f r t, r r - t,
 r r - t a t, a r l, t, ... t, r - t, ... l a
 r ... a ... a ... e ¼ e^{00p} p d e ... t, d e ≡ ∂n_e² - n₀²p
 ∂n₀ ⊗ n_⊥ p n_⊥ ⊗ n₀ p a n_⊥ ¼ f₀; n_y; n_zg. a ... t,
 f r ... a l ... f R f . [22,37, ... t, ... t, a l a ... t, a
 ... l ... l a t r ... f t, l t, r r, t,
 f t, a t, t, r ... a t, a l f l ... a ... l a t,
 f ... t, f l ... t, ... f f r t, a l ... a t, ...

$$\Delta n_{\perp} \approx 2q \frac{\partial n_{\perp}}{\partial x} n_0 \frac{1}{4} - \frac{0n_0^2}{4K} R \frac{\partial E}{\partial x} n_0 E; \quad (1)$$

$$\frac{\partial E_x}{\partial z} \frac{1}{4} \left[\sqrt{k_0^2 \frac{00p}{xx} p D^{00p}} \right] n_z \frac{\partial}{\partial x} E_x; \quad (2)$$

$$E_z \frac{1}{4} \left[k_0^2 \frac{00p}{zz} p \Delta^{-1} \left[\frac{\partial^2}{\partial z \partial x} - n_0^2 n_z \right] E_x; \quad (3)$$

... t, ≡ ∂n_e=n₀p² - 1, q ≡ 2 = p t, ... ta ... t, ... t, f
 t, ... l t r ... a , K t, ... a ... la t, ... ta t, (a ... -
 ... r ... t, ... la t, ... t), k₀ t, ... v ... t r ... t,
 ... a e , a D^{00p} a f f a ... t, ... r a t r ... e ta ... t
 r r r v a t , ... x a ... y

$$\forall A; \quad D^{00p} A \equiv \frac{\partial}{\partial x} \left(\frac{1}{\frac{00p}{zz}} \frac{\partial}{\partial x} \frac{1}{2} \frac{00p}{xx} A \right) p \frac{\partial^2 A}{\partial y^2}; \quad (4)$$

t, t, a t, ... (1)-(3), ... t, t, y ... t,

at, lat, all v a a t, l a r [17. v r,
 a a t, at, a lat, al v a a e t, a r -
 a t f r a t, al l t, f r a a l, r e e a l a t,
 f t, a a t, t, a r t, t, r at, r a a f
 a t, e [17. F t, r a , l v t, at, t,
 l a t, e a l v a f t, u r e a r a a l
 a r a spatial solitons L e t, t, f -
 f e r f t, d, a v r r f l r v u r a
 similaritons, a e a l e a f a t, al l t, l a
 a a t, a a r r a , f f a e t, a l a
 r a l r t, a a a [38. t, t, at, r e r
 l t, a a l a t, F . 3 r l a l v a l -
 a t, e e F . 4 t, at, n z r v
 q ¼ 0.

a a a , t, u r r v v e t, at,
 e r a l t, e a l a a a f r l t, l a r
 f r f r t, a a t, a l . f e t, a t, a
 a t, at, f f e l a F L e a l v a
 e a t a t, a t, r e r a t t r t,
 t, e f r r l a l a t, f t, a a l . r v r,
 t, at, e r a l t, r e t l e t, r t, t, f -
 f e r f f e t, t, a a e a t f a e t, e a r
 a l a t, t r l f t a l a t, f t,
 F L e r r l t, t, r v e t, a f r l
 F L e f l a t, e v e e r e r a l t,
 a e t, a l l t, e a t, v e e a a l t, e a l
 r, r, f r l a f l a t, l . e F L e a l
 r t, t, t, e f r f r t, t, F L e a l
 l t, — t, l e a l l r t, e t, l e a l r e t r -
 f l e f r a t, [16 — r r l t, a l r r t, v l
 r f a l l t, e a l f r a a t, t, a a
 t, e a l t r a e t, t, l a v a a t, -
 l r e a l l t, .

G . P. a . Ž. a e l r f r f a t, R
 (v a r S a a R a v a l D v a t, R) t r , S S

- [31] J. J. A. Janssen, *Phys. Rev. E* **66**, 036603 (2002).
- [32] J. P. A. Goossens, J. J. A. Janssen, and S. J. de Groot, *Phys. Rev. E* **9**, 021051 (2001).
- [33] J. J. A. Janssen, D. G. Semakova, and S. J. de Groot, *Phys. Rev. E* **78**, 023101 (2008).
- [34] J. J. A. Janssen, *Phys. Rev. E* **78**, 023101 (2008).
- [35] J. J. A. Janssen, P. P. A. Goossens, and S. J. de Groot, *Phys. Rev. E* **72**, 066614 (2005).
- [36] J. J. A. Janssen, R. P. A. Goossens, and S. J. de Groot, *Phys. Rev. E* **81**, 033101 (2010).
- [37] P. P. A. Goossens and P. P. A. Goossens, *Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments* (Routledge, 2006).
- [38] S. J. de Groot, P. P. A. Goossens, and J. J. A. Janssen, *Phys. Rev. E* **75**, 033101 (2007).