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Slow electrons in a Polar Crystals

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STATEMENT OF THE PROBLEM

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$$H = \tfrac{1}{2}P^2 + \textstyle\sum_K a_K + a_K + i(\sqrt{2}\pi\alpha/V)^{\frac{1}{2}} \sum_K \frac{1}{K}$$
$$X[a_K + exp(-i\mathbf{K}\cdot\mathbf{X}) - a_K exp(i\mathbf{K}\cdot\mathbf{X})]. \quad (1)$$

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$$\alpha = \tfrac{1}{2}(\tfrac{1}{\epsilon_\infty} - \tfrac{1}{\epsilon})\tfrac{e^2}{\hbar\omega}(\tfrac{2m\omega}{\hbar})^{\frac{1}{2}},$$

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$$i\partial\psi/\partial t = H\psi, \quad (2)$$

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$$H\varphi_n = E_n\varphi_n, \quad (3)$$

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$$\psi = \textstyle\sum_n C_n\varphi_n e^{-iE_n t}.$$

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$$S' = \tfrac{1}{2}\int(\tfrac{d\mathbf{X}}{dt})^2 dt$$
$$+2^{-\frac{3}{2}}\alpha i \int\int |\mathbf{X}_t - \mathbf{X}_s|^{-1} e^{-i|t-s|} dtds. \quad (4)$$

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$$\partial\psi/\partial t = -H\psi, \quad (5)$$

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