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$\mathbf{s}(t)$  is the

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the surface defined

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Normals to surfaces

$$\mathbf{r} = (x_1, x_2, x_3)$$

$= \mathbf{s}(t)$  is the

parametrization of a

curve lying within

the surface dened

by  $f(\mathbf{r}) = c$ . Since  $f$

$(\mathbf{s}(t))$  is a constant

, the derivative of

this function is 0:  $\frac{d}{dt} f(\mathbf{s}(t)) =$

$$\frac{d}{dt} f(\mathbf{s}(t)) =$$

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gas is purely two-  
dimensional in the  
sense that only the  
( $p = 1$ ) band needs to  
be considered, and  $k$  is  
a two-dimensional v  
ector with the length  $k$

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$= k^2 x + k^2 y^2$ . The most important quantity is the Fermi energy, which is determined by evaluating  $N$  at zero temperature:

$$n = \frac{N}{A} = \int_0^{k_F} 2 \pi k dk = \frac{2 \pi}{2} k_F^2 = \pi k_F^2$$

(2a)

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system is  
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