Transition to SC state due to Cooper Paire two e make a quasiparticles boson with knet = 0 in zeros field

in H=0 second order H+O first order

Define Hc - critical field:

$$\frac{Hc^2}{8\pi} = fn(T) - fs(T)$$

Emparically: $Hc(T) = Hc(0) \left[1 - \left(\frac{T}{1c}\right)^2\right]$

Electronic Heat Capacity

$$\vec{B} = \vec{H} + 4\pi \vec{M}$$

$$\vec{B} = 0 \rightarrow \vec{H} = -4\pi \vec{M}$$

$$N = \vec{M} = -1$$

$$\vec{H} = 4\pi$$

Penetration: $B(x) = Poo \cdot e^{-x/\lambda}$

$$\lambda(T) = \lambda(0)$$

$$\Gamma + 1 + 7 = 1/2$$

Monetration:
$$B(x) = box \cdot e$$

$$\lambda(T) = \lambda(0)$$

$$\frac{\lambda(T) - \frac{\lambda(0)}{T}}{1 - \frac{T}{Tc}}$$

$$\lambda(0) = \frac{Mc^2}{4\pi ne^2}$$

 $\frac{1}{e^{-\Delta/T}} = \frac{1}{e^{-\Delta/T}}$ $\Delta S = \int_{T}^{T_c} C dT$

8T=Gn

Normal state

$$A = E$$
 $A = E$

appurouturing state

 $Z = Z e^{-EET} = -e^{-Sa} + e^{-EE}$
 $= Z \cosh(Ea)$
 $A = E$
 $A =$