20/1/25 Monday and from the break and form Diffraction Loss -Single slit diffraction Kinds / Diffraction because of the difficultion law. A. Oug - CA- (Par) - C- VI- Vo (nix) - ) 0 - P (ny) Kirchoff's Law A(n,y) = - in SAn-1 (n',y') = ihr coso du'dy' In stationary condition C-VI-80 eif An (a,y) = C An-1(n,y) To = diffraction loss for sound trip.

An (mx) = - in (1- Yb) 1/2 et An (xiy') et conodridge field distribution. for particular one -> for this geometry if one find

An for confocal mirror resonator field Listribution -> 2 concert minor £ 2 O-HO-M radii of comature - RI=Rz=R=d field distribution becomes. Amn = C\* +m(n\*) +n(y\*). = 12/02 eng (ix(rx2)) x\* = \(\frac{72}{\omega}\) \(\frac{7}{\omega}\) \(\ (M, m) gives you different medes -> M=N=0 Hn=Hm=1.1  $Aoo = C^* e^{-r\chi_{\omega^*}}e^{i\phi}$ Too = To & 210 your (There of the ware - Garmin) at r= 2 > I 00 = Iol = beam radius When 2=0, min value of  $W^2 = \frac{\lambda d}{2\pi}$  h = beam draist

beam waist is min, at 2=0 water that the beam redus keep on changing. W=r=(nk)2 at 2=0. 1 1 42 = (2K)2) = 2 (AR) 1/2 = 2 VW M = 0, N = 0TEM mode -10 TEMO d my my for 

On the screen we get circular region and intensity Lecrement gaussian. Laser spot site 172=0 beam weigh not only width changed, phase also has changed. Phase revolues changes with distance. 2 R He-Ne law - ux his for shapiting. Helium 332 mm 1-36 2-36 (VSIL6)

Ar lison: Continuous une gas land. (CW Lam) Sani Confueta to Semi Carductor Layor) Dide Lasson, P-n june Galim Arcobine

Partally highly

reflective rightery. laser, pointeris actuelly a docte liger dade laxor He-Ne is ist lam. (Aco)