20/1/25 Monday the every best and for se Diffraction Loss -Single slit diffraction Endoffe Diffraction because of the differention have. Ax Cong = CAm (Cong) C = VI - Vo (nix) -) 0 - P (nxy) 1 (1-10) 12 (1 MOCO 3) EN (1-1) Kirchoff's Law A(n,y) = - in SAn-1 (n',y') = ihr coso dr'dy' In stationary condition C=VI-80 eif $A_n(x,y) = C A_{n-1}(x,y)$ To = diffraction loss for sound trip.

An (m, y) = - = (1- 10) /2 = A (rig') = conodridge field distribution. for particular one of for this geometry if one find An for confocal mirror veronator field distribution. 2 concerne mission. £ 2 0=110=11 radii of comature - R,=Rz=R=d field distribution becomes. Amn = C* Hm(n*) Hn(y*). 2 eng (ix(rR2)) x = \frac{72}{\omega} \q \frac{\sqrt{2y}}{\omega} \omega \frac{2}{\omega} \left(1+\left(2\frac{2}{\omega} \right)^2 \right) (M, m) gives you different medes -> M=N=0 Hn=Hm=1. $Aoo = C^* e^{-r\chi_{\omega^*}}e^{-i\phi}$ Too = To & 210 your (There of the ware - Garmin) at n=10 > I 00 = Tol-2 = beam radius When 2=0, and value of $\omega^2 = \frac{\lambda d}{2\pi}$ $h = beam draist \qquad = \frac{1}{2\pi}$

beam waist is min, at 2=0 with distribution beam redus keep on changing. W=V=(AK)2 at 2=0. 1 1/2 = (2/) (1+(2/2)2) = 2 (ar) 1/2 = 2 VW M=0, N=0 TEM mode. 10 TEMO ATTACK ON A SOLIO THE THE PARTY OF T

On the screen we get circular region and intensity Lecrement gaussian. Laser Spot site 77=0 beam waist not only width changed, phase also has changed. Phase revoluse changes with distance. 2 12 He-Ne laser - ux his for stability. Helium m -332 pm 1-38 (NS189)

Ar liser: Continuous une gas land. (CN Lam) Smi. Confuely to Semi Carducton Lagar/ Didde Lassin, P-n june Galim Arcobine

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righthy. Laxor pointeris actuelles a double Egge Dale Lawn He-Ne is ist lam. (Mco)