根据Fig.Z 推导BD推接收光强工. 这probe长在未进入分死(阿杉灯)前为偏振与x(b(平)成●角的偏振光 V $\vec{E} = E_0(\hat{\chi}\cos y + \hat{g}\sin y)e^{i(wt-k\delta)} = \frac{1}{2}E_0(\hat{\chi}(e^{iy}+e^{-ip})-i\hat{\chi}(e^{iy}-e^{-ip}))e^{i(wt-k\delta)}$ 分别为 右手偏振光和右手偏振光(螺旋度分别为十1,一1) 进入介作后最和可发生不同的变化(Pump长的存在等效两种长被介质的吸收 率不同,也反展在折射半不同). $\vec{k}_{R} \rightarrow \vec{k}_{R} = \frac{1}{2} E_{0}(\vec{k} - i\vec{g}) e^{i(Nt - \vec{k} \cdot \vec{s} + g)} \qquad \vec{k} = \frac{w n}{c}$ $\vec{E}_L \rightarrow \vec{E}_L = \frac{1}{2} E_0(\vec{k} + i\vec{g}) e^{i(\omega t - k^{\dagger} z + g)} \qquad k^{\dagger} = \frac{\omega n^{\dagger}}{c}$ 从有医出射后 $\vec{E} \rightarrow \vec{E} = \frac{E_0 e^{-3/2} L}{2} (\hat{p} - i\hat{g}) e^{i(Wt - kZ + g)} + \frac{E_0 e^{-3/2} L}{2} (\hat{p} + i\hat{g}).$ ei(wt-kt-4) (L为probe长方后原相3作用有效长度). my = Everit i (e- 27 e-il9+ 21nt) - e- 27 e il9- 22n-))

= En x + mg = Enerint (e-== e 2 (9- 4/2)+ e-== e 1 (9+ 4/2 nt)

促进阴极灯后的全坡片得(成)=(四次 sinzu -公政)(成) 0为波片块 轴和 X 类角.

$$= \sum_{k=0}^{\infty} \sum_{n=0}^{\infty} \left(e^{i\theta_{n}} - \frac{w^{k}}{n} + i \frac{x^{-k}}{n^{2}} \right) + e^{-i(\theta_{n} + i \frac{x^{-k}}{n^{2}})} + e^{-i(\theta_{n} + i \frac{x^{-k}}{n^{2}})}$$

Try = since (eil9- (h+i 2) +e-il9+ (h+-i 2)) -co120 (ie-il9+ 2n+-iatl) - iei(9- 2n+i 2)) $\begin{cases}
\frac{\omega L}{c} = a^{-1} & \frac{\omega L}{z} = a^{+1} \\
\frac{d^{-1}L}{c} = b^{-1} & \frac{d^{+1}L}{z} = b^{+1}
\end{cases}$ $\begin{aligned}
|E_{a}|^{2} &= e^{-2b} + e^{-2b^{+1}} + 2e^{-(b+b^{+})} \cos(40 - 29 - a^{+} + a^{-}) \\
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对pump长加占空比调制最终反应在 Odo 上,即相当了 Odo 加了调制数器用 Lock-ni解调,最终反馈给 PID 的误差信号 Elt于 AX.