$$\chi_{1} = \chi_{1}$$
 $N = 94$ 
 $K = 50$ 

$$P_{m} = \frac{50}{94} \approx 0.53$$

$$V_{2}...V_{m} = 68$$
 $V = 40$ 

17 -population Proportion

$$L = \hat{p}_{m} - \hat{p}_{F} - Z_{d/2} \cdot \sqrt{\hat{p}_{m}(l-\hat{p}_{m})} + \hat{p}_{F}(l-\hat{p}_{F})$$

$$U = \hat{p}_{m} - \hat{p}_{F} + Z_{d/2} \cdot - 1/-$$

$$99\% 17 = 11-2.00\%$$
 $d=0.00\%$ 
 $d=0.$ 

$$P(Z < Z_{02}) = 1 - \frac{1}{2} = 0.995$$
 $Z_{012} = 2.576$ 

$$P_{m}-P_{7} \in (-0.06-2.576.\sqrt{\frac{0.53\cdot(1-0.53)}{94}},\frac{0.59\cdot(1-0.59)}{68})$$

$$\chi_1 = \chi_n$$
  $\frac{\kappa}{n} = \frac{\Lambda}{2}$ 

$$\hat{P} \sim \mathcal{N} \left( P, \frac{P(1-P)}{n} \right)$$

$$Y_{3}$$
 --  $Y_{m}$  ,  $\frac{Y}{m} = \hat{P}_{2}$  ,  $\hat{p}_{e} \sim \mathcal{N}(P_{2}, \frac{P_{2}(P-P_{2})}{m})$ 

$$\hat{P}_1 - \hat{P}_2 \sim \mathcal{N}\left(P_1 - P_2; \frac{P_1(1+P)}{N} + \frac{P_2(1-P_2)}{M}\right) \sqrt{\text{var}(\hat{b})}$$

$$Var(X-Y) = Var(X) + Var(Y)$$

$$Z_{d/2} = \frac{\hat{\omega} - L}{\sqrt{|\omega|}} \quad \hat{J} \quad L = \hat{\Theta} - Z_{d/2} \cdot \sqrt{|\omega|} \cdot \hat{\omega}$$

$$U = \hat{\Theta} + -II --$$

$$\chi^{2}(k) = \frac{k}{2}(Z_{i})^{2}$$

Student's t-Listribution

$$\frac{Z}{J(K)} = \frac{\overline{X} - M}{\sqrt{N^{2}(K)}} = \frac{\overline{X} - M}{\sqrt{N^{2}(N-\Delta)}} = \frac{$$

K-Jegree

OF

Freedom

$$S = \frac{1}{n-1} \sum_{i=1}^{2} (X_i - X_i)^2 \qquad S \cdot (n-1) \sim \chi^2(n-1) < \frac{3}{6^2} \sim \chi^2(n-1) < \frac$$

$$\frac{\overline{X} - \mathcal{U}}{S} = \frac{\overline{X} - \overline{X}}{S} = \frac{\overline{$$

$$U = \overline{X} + t_{d_2} \cdot \frac{S}{\sqrt{n}}$$

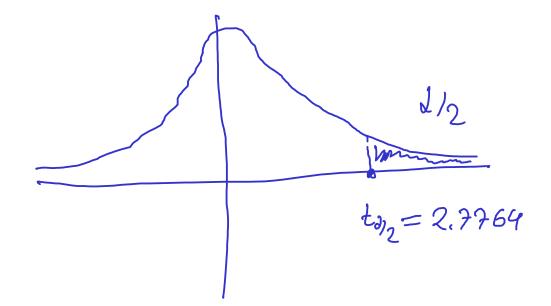
$$E_{X}$$
 95%  $\rightarrow$   $\lambda = 0.05$ ;  $\lambda_{1} = 0.025$   
147, 84, 24, 85, 159

L'- Lenk nourn

$$\bar{X} = \frac{\bar{2} \, \chi}{n} = 99.8$$

$$5^2 = \frac{1}{n-1} \cdot \overline{2}(x_i - \overline{x})^2 = 2986.7$$

$$5 = 54.65$$



$$\mathcal{H} \in (99.8 - 2.7764 \cdot \frac{54.65}{\sqrt{51}}, 99.8 + 2.7764 \cdot -11-)$$