## Physics 341 - Lecture 17

Comparing Tuo Groups of Duta.

D Set 1, Set 2, Set 3,
-.. Same

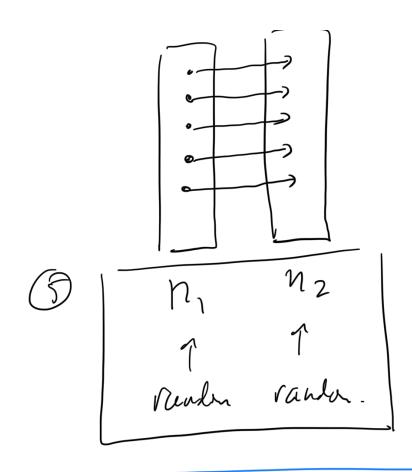
2) Set 1 - make change -> Set 2

3) Meta analysis

-> group 1, exp 1

-> group 2, exp 2

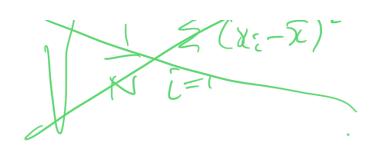
(4) Before / Heter



t tests -> x, S, V/n

Summany Statistics.

 $S = \sqrt{\frac{1}{2}(\chi;-)\iota}^2$ 



t = 2 - M Silyle Sayle

 $\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ Sample = 3EM

Wetglted average of (S/IN)

 $SEM = \sqrt{\frac{S_1^2}{h_1} + \frac{S_2^2}{h_2}}$ 

- 1 DA2 1.1 J SE2

assumption: Expect  $\overline{X}_1 = \overline{X}_2$   $\mu_1 = \mu_2$ 

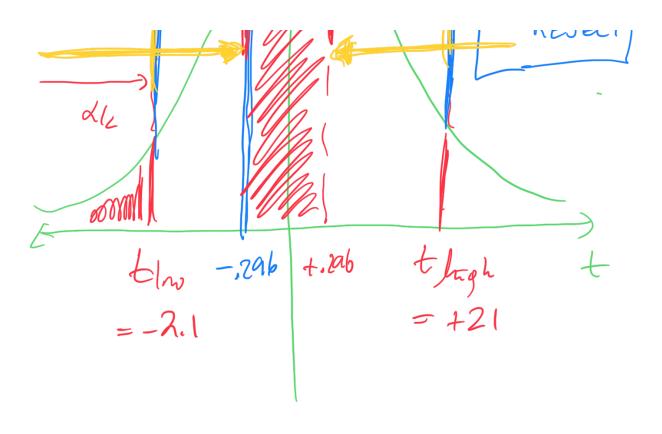
Process -) Inprocent -> - Inprocess

 $M_1 = 100 \qquad \qquad M_2 = 112$ 

the set impured by 10?

$$\frac{1}{2} = 98.4 \quad \text{Topused by 10?}$$

$$\frac{1}{2} = 104.$$



$$\mathcal{V}_{1} = \mathcal{N}_{1} - 1$$

$$\mathcal{V}_{2} = \mathcal{N}_{2} - 1$$

$$\mathcal{V}_{3} = \mathcal{N}_{4} + \mathcal{N}_{3} - 2$$

$$\mathcal{D} = \gamma_1 + \gamma_2 = \gamma_1 + \gamma_2 - 2$$

$$M_{L} = M_{L}$$

**N.** . . . . . .

7 1

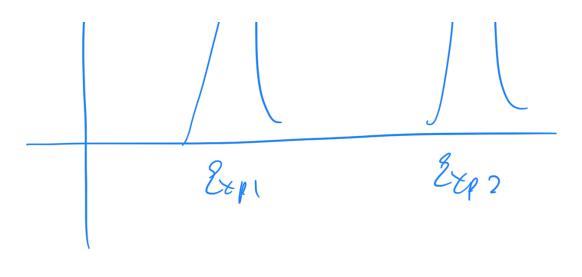
97,12 100.15 [P-velies - 3 mill - affect long - 10 offeet P-inte < × > ofe  $> \prec \rightarrow \lor \circ \mathscr{A}_{r}$ Example 2 Exaple 1 Same data. Save deta

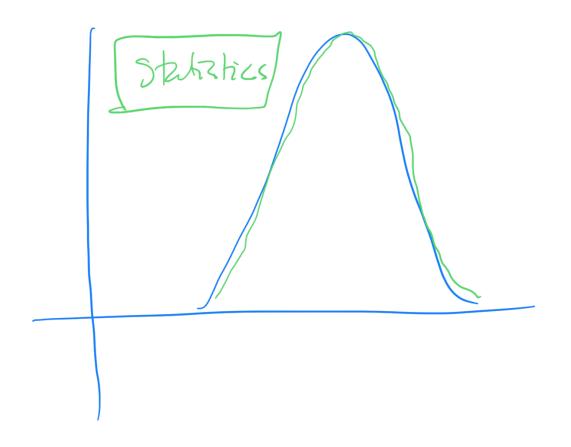
1, NOCE 22

(x, -x2)-(k1-fl2) measure of the number of Std. devictions away from

P-valee > What would

I have to be , for us to chain " w flot "





Race Data

Rue 1 tines

Page 2 fines

$$\int \int - \mathcal{N}_1 + \mathcal{N}_2 - 2$$