Ecroro Session 9 class 1 2) Ye is % change in GDP retreen years Y 1980, Y 1991 ... Y 2020 Of = new {0, % change is oil prices} 2 + B, OE + B2 OE-1 + EE · 4 os 1 by 1, a,5) 0 : 100 x 25 45 1 by B. L-. 6 06=0 4051 51,

461 by Bz

25 Br

YE = A + BOE + B2 OE-1 + EE

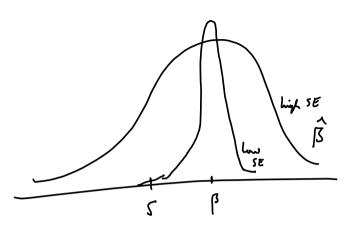
t= 1, ..., 184 - and 01, ..., 0184

Mt time  $t=1: Y_1 = \alpha + \beta_1 O_1 + \beta_2 O_0 + \epsilon_1$ ab time  $t=2: Y_2 = \alpha + \beta_1 O_2 + \beta_2 O_1 + \epsilon_2$ 

I can un OLS using Y2, ..., Y184

198 471868 194

176



find the OCS estimates for B.

 $T = \frac{\beta - \beta_0}{s_{e(\hat{\beta})}}$ 

13,121

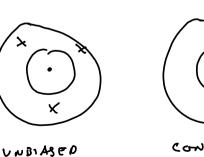
?)

$$\frac{1}{2} \sum_{i=1}^{n} y_{i} y_{i-1} = 0$$

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$$\frac{1}{2} \sum_{i=1}^{n} y_{i} y_{i-1}$$





# ( E + | Y + ) = 0