Lee 9 Mach 391 3/7/18 Bysin Appolisi Featry! Consider to right-side test ... Ho: 0 = 0, = 0.5 Ho: 0 > 0, = 0.5, \ X = 5% In Boys. he kam P(OIX) Cg. this we know $P(H_0|X) = P(0 \le \theta_0|X) \stackrel{og}{=} P(0 \le 0.5|X)$ $0.5 = \theta_0$ $0.5 = \theta_0$ varsing of Boyesian = pbeta(o, x', B') P-vahe" P(Nall Hyp. beny time) alore prob. to it?? of pol < d > Ho not likely emph! Direch it!

11

of put
$$\langle \mathcal{A}_0 \rangle \Rightarrow \text{Regent Ho}$$

$$\text{put } \geq \mathcal{A}_0 \Rightarrow \text{FTR Ho}$$

$$\text{P(Ho)} \qquad \text{whis the? put } \text{P in put } \text{Ho}$$

$$\text{P(A)} \qquad \qquad \text{P(Ho)} \qquad \text{P(Ho)} \qquad \text{whis the? } \text{Prop put } \text{Ho}$$

$$\text{P(A)} \qquad \qquad \text{P(A)} \Rightarrow \text{P(A)$$

/ On U(0,1) P(10) = P(0=00) = Oo Prior man, ...

Role of O=X? Non no loyer of less strained

Vest: this sites egunder to Do & CRR, O, 1-x => Rem Ho

How $\theta \ge \theta_0 = 0.5$ $|\theta| \cdot \theta \le \theta_0 = 0.5$

Nok: equals so Do E CRL, Q,1~ > Rom Ho

poter Mell or precise mell Ho: 0=00 Ha. 0 + 00 Pul = P(Holx) = P(O-Oolx) = O (almp) W? Prules My 241 Du? Why? In restry all point mulls are abound ... In partible! problem the = +? No. 0.500001 rent on Two ideas () has 0.500001 = 0.5 for all present puposes => Ho: O ∈ (0, ± S) (de: 0 \$ 6. + 5) This is world who you resu! Who is ruju of equalen for coin \$ 1kalo S= 0.01? 3) Ho: 0=00 if planible Ha. 0 + 00 Do € CRO,1-0 > Retain Do € CRO,1-0 > Rgen for the Columbia Los not claim. This sons to be contested ... which is uf me me Byes Factors (Spor)

Eaples

Ho: 05,1

Hn: 0>,1

 $\alpha = 5\%$, n = 150, x = 23

Res Ryn = [0, .1+1.67 \(\frac{1.9}{150} \)] = [0, .140]

0 = . 153 & Res Page => Peges Ho }

Byessm. On U(0,1) = Bem (1)

0/x 2 Bem (x +x, B+4-x) = ben (24, 128)

Pul:= P(0=.1/x) = Sen(20,128) d0 = plen (.1,29,128) = .01544 Simla!

Ho: 0=,5

Ha: 0 + ,5

X=51

5=100

X = 61

Res Pay = [,5 + 2 \[\frac{5.5}{100} \] = [.4,.6]

0=.61 & Rx Ay => Rox

pul := (1-15) = 2 P(Z > 2.2) = 2 (1-pun(2.2)) = ,0278

P(2) 153-1 = 2.16

nis high

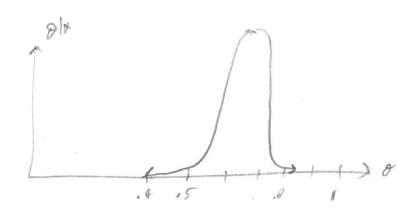
Fice 2 boyer

= phorm (2.16)

Byson On V(0,1)

8/X ~ len (62, 40)

D Ho: O∈ (41,51) i.e. S=.01 egundere mayin H: O € [.49,51)



Anthr my to kest! Bygon like the best

 $B := \frac{P_{H_0}(x)}{P_{H_0}(x)} \leftarrow$ if b big => He is a kerne model for the drong X. Byes Factor decommon in lyes Pule!! prob of dam! = P(X10) P(O) dO P(10) PHO(0) 40 oops... ([102], 56 (1-5) 100-61 (1) de (100 do (-0) 100-61 () do $= \frac{0}{0.5100} = 1.39$ He bester model. bess is decise? valiting of Teffreig 181 scale of bags Forms programs for Hy

Form dam

Jesty psycholoreus (ESP)

Ho: 0=0.5

104: 0 × 0.8

X=54

4= 104,990,000

0=,50001768

X = 52, 263,770

feynose

this gry has the => psychokues aboloj!! And = . 0003 <

But " Byeson --

0 (x~ len (52267971, 5422653)

Ho! 8 = 0,5

Ha: 0~ U(0,1)