## Reflexive.

OFOR  $X_n \to X$ .  $f_n \stackrel{*}{\to} f \Rightarrow f_n(x_n) \to f(x_n)$ . We require  $(X_n) \in E$  Barrel

If:  $|f_n(x_n) - f(x_n)| \in ||f_n|| ||X_n - x|| + ||f_n(x_n) - f(x_n)|$ Note we use UBP to Prove (||f\_n||) bad.

Park:  $||y|| \times x_n \to x$ .  $f_n \to f \Rightarrow f_n(x_n) \to f(x_n)$  has

mo require on E. (Since  $E^*$  Brusch)  $\ddot{n}$ )  $\angle .1$ ,  $E = C_0$ , not Brunch.  $C_0 = C_0$ ,  $C_0 = C_0$ ,  $C_0 = C_0$  and  $C_0 = C_0$ ,  $C_0 = C_0$ ,  $C_0 = C_0$ .  $C_0 = C_0$ ,  $C_0 = C_0$ .  $C_0 = C_0$ ,  $C_0 = C_0$ .  $C_0 = C_0$ ,  $C_0 = C_0$ .

iii)  $x'' \rightarrow x \cdot f_n \rightarrow f + f_n(x') \rightarrow f(x)$ .  $E'(x') = (e^n) \cdot (f_n) = (e^n)$ or  $E = F = C_n$ .

1) 7/m. E separable r.v.s. =) E\* is weak\*.

Seq. Cpt.

Pt. (Xn) is Kuss in E. (fn) Et. 5.: 6fa (X.) n pas Gnr. Subseq. Cfn11). Also fix (fn., (x21)... By Kinghout symmet. I (for) cinuiges on Ex.). Dextent on E. 4.9. Esp. is pressong. E = La Set fn cx1 = Xn. => 11 fn 11=1. A FIFT Corverge subseq. We let X = CXn ) := CIII = nk, k is even ). But for ex last anyonge. And: Bis week - pt in Et is well Or E 14/1xive Bronch. => BF, is work Seg. Ept. Cezni. in tact.) Pf: Fir cxn: 11x-11=1>= E. /vt: U= Sprr (Xx). Sep. = Ut. sina u is also reflexive. => (x is sep. => (nexx) has

50: Xnx - Dn X\*\* => Xnx - Nnx \*\* TELEFIS. TELEFIS = Lp. T: 6x, x ... > E lp (-) (x2, X3 ...) T\*16x) = pTCx) = ZXx1,1x 1 ELq = ZLX3. 5.: TZ = Z = Lo. 71, 1/2. ...) E LZ. i.L. T: (1,1,1,...) H) (0,1,...) ml 117 11 = 11711 = 1. in FCE n.v.s. i: F = inclusion map So: ity = 1/2 restriction pents/. Kmk: Live 11.11=, 11.11= 24 ; ELCF.E) = i \* + L < E \* F \*). Lente j= i\* In fruit. E\* C F\* menns:

j: f & E \* cs f / = & F\*. rath inclusion volution line to Ex. F= 2. 2, . 22 - 2 . 2. - 22 / 4.1. E=Z, E=Zo. F=Sprrfes. But Lo # Spartell. ELEFS. Then: This injurive St. 4, TET, = D. 441, ) ‡ 0. 4. 6 F/TETS 37 - 21 = 0. but 1 + 0 = km < T. (E) HRE ENCTYS. 0-7×6= 60T So: L=O Since TCE) Lose in F. E. F. Brunch. TELCE, FJ. Thom: シルィオリ = Rィナリ ii) ルノフ> = Rcヤル ii) NLT) = RLT\*1 iv) NLT\*)」: KLT). V) Natt) is weak see when in F\*. Vi) RET) Closed (5) RET (1) Closed. Pf: Chita i) - u) Kiruty. CBy u= u)

