Leeme 19 Dec 2, 2014 for rivis he construction is (1) Mx(e) = Mx(e) (5) X=Y fraggers ... just like COF / Recle also
(2) Mx-y(e) = Mx(e) My(e) if X me Y re indep. Z~N(e) (5) 200=e 4/2
(3) Mx(0) = E(x), Mx'(0) = E(x), ..., Mx(0) = E(x) Problem seng: Xi,..., X & some PMF (or POF) if discrebe by conf index. The PMF (or POF) is continent. Best we know [May. E(K) and E(K?) exist (equil, as eR, or ER) X is type of ormers X: Xiture X 的= n, 以前= 等 > 如初二号 1) => ( := \ = | has E(C\_1) = 0 and SE(C\_1) = 1 a/mys! equalent: D) ( = 7-44 size Xir., X &f, = Zu., Z, ild for Z= Z++12 whe Z= 5, 2:= 5, ..., Z= 5 Three equaler (in algorism) ways to defre Con I work was cre about Con as 1 -> 00, when is Grans? Use 3th 44 (Ficher me)

YEAX 7 MYG) = EECHK) = MX(CE) les M2(4) be myf for Z / ey= \$ 15  $= \int \ln x \, is \quad M_{\frac{2}{\sqrt{n}}}(t)? = \left( n_{2}(t_{n}) = E[e^{\frac{4\pi}{n}}] = E[e^{\frac{4\pi}$ What is My (+) = My (1) . My (1) . (. My (+) by ind f 34 = m2(th) h kg idea door. Who is Mc(+) = lim Mc(+) = lim (M2(+)) 4? 1901-1902

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- 1  $= \lim_{h \to \infty} \left( \left| + \frac{t^2/2}{h} + 0 \right| \frac{1}{5} \right)^h \qquad \frac{\partial G}{\partial h} \in O(h) \leftarrow O($ Handcore asymptonies. in the above, the off Horace? REP, EZ. => lin (+ +1/2 - 06) = lin (+ +1/2) = et2/2 => (~NE)!!

(Ceral Linis the (CLT) Nest) 2 95 9000, On becaus mor only distribute as New) => X-4 do Men 12 -> NEI) The me is well Man re morr usden def. said now wish so for big ni, at u don't kan could ben by (see th #9) O E ~ NOI) & Think ~ NOI) For the propose of olive close, there are true if I say by " => dife al sides: SE2=Var... instrution bern! () X ~ Mm, (5)2) al Tr ~ Nfm, (50)2) The 4 rule at by " que of monument informe! We now are done with probability and are mony to sustained. SKIP +0 P5 .... Affect of forthalf fort to the forthe

The a bream (ap), E(1-)= un, Var(1-yplp), Se(1)-Japlp)  $\frac{1}{\sqrt{1-\frac{X_{i}+...+X_{n}}{n}}} = \frac{\sum A_{X_{i}=1} - \sum ue}{n} \frac{\sum A_{X_{i}=1}}{\sum A_{X_{i}=1}} \frac{\sum A_{X_{i}=1}}{\sum A_{X_{i}=1}$ In the special case, he range is all a proportion" the # of gyles brown postere or note #! It has you'l Pi= Enter Programs p = 2 de mora Redle X ~ Man (2)2) for by n He, p~ Mr, JED) What does who look the? PrMp, JEG POF F(P)= TEN E ZEE (PP) 2

Her vanishe se the draws from P, 4 THE PUTE POPE PUTE PUTE PUTE PER The restaurne. · L'Europ. Status

15

Heis de bal. You's yet in set benelis for de popularion and redire dem...

Size n. If is is by ",

CLT kicks in all

prov as we down X1,1/2, X2 possibles Thus p is a draw redam for P. 18.pl = /N Could be anythe! (SRS) We not to ife p. ("4le 00") About thee. need cople prove tools. Rewer the room, distr. again! Zn Mein) P(Ze[1,1]): 68%.

P(Ze[2,1)): 45%.

P(Ze[3,5]): 91.7%.

P(Ze[3,5]): 91.7%.

If  $X \cap N(m, \sigma^2)$   $P(X > m + \sigma) = P(X - m > \sigma) = P(\frac{X - m}{\sigma} > 1) = P(Z > 1)$   $P(X < m - \sigma) = P(X - m < -\sigma) = P(\frac{X - m}{\sigma} < -) = P(Z < -1)$   $\Rightarrow P(X \in [m - \sigma, n + \sigma]) = +(P(Z | > 1)) = 684.$  ) april 126  $P(X \in [m - 2\sigma, m + 2\sigma]) = 1 - P(Z | > 2) = 954$  ) for grand 124.  $P(X \in [m - 2\sigma, m + 2\sigma]) = 1 - P(Z | > 2) = 91.74$  yound dist.