whole syllabus.

estimator \rightarrow unbiased estimator E(T(x)) = 0large n, conv. m prob, conv. m dist, (def)

WLLN, cheb meq., Markov. meq., CMT $S_{n-1}^2 \stackrel{?}{-} S_0^2$, $S_n^2 \stackrel{?}{-} S_0^2$, $S_{n-1}^2 \stackrel{?}{-} S_0$, $S_n \stackrel{?}{-} S_0$ classical CLT, Levy CLT ($\stackrel{?}{+} \stackrel{?}{+} \stackrel{?}{+} S_0^2$, only cover $\stackrel{?}{+} S_0^2$)

use CLT to construct CI for μ , σ^2 , pivotal quantity, fully specified. $X_n \stackrel{?}{-} N_0 \stackrel{?}{$

1st delta method for g(0), using taylor expansion.

2nd -- nth delta method.

estimate CI for 52

OIX/ME, large n prop. for multi var MME., invariance prop.

MLE. $\hat{\theta}(\hat{x})$, 2 para case, invariance prop. $\hat{\theta}$ then $h(\hat{\theta})$ is

Fisher mfo. $I_X(\theta)$, matrix.(2 para), regularity conditions & lemmas. asy MLE., observed fisher mfo.

UMVUE, CRLB for 0 and g(0), linear trans

Booststrap & find CI. , hypo testing