The true density is they orms The above analysis is valid only if the model is correctly specified: by a parametric family $f(x/0), 0 \in 0$ Otherwise the model is mis-specified: to determine from our scompling I a true Ou sorthet the F(x/0) to be the true density. However, it can be seen as a good approximation of the true model. Then the example of is tederated statement the approximate f(X/O) to diverge as little as possible from the true are: Kullback-leibler (KLIC (F, fo) =) f(x) . $log \frac{f(x)}{f(x|0)} dx$ \longrightarrow KLIC(F, F) = 0 = $\int f(x) \cdot log f(x) dx - \int f(x) log f(x|0) dx$ argmin KLIC (F, 9) = f(x)pseudu-time Ou Eargmain Morc(file) = argmax (10) => for a mis-specified model the MLE-O
is the sample and of the pseudo-true parametric So the whole analysis remains untouded except for the difference that for mis-specified model: Fo => NO +hus [n(0-00) -> N(0, 70 70 70)] -> to estimate the (pseudo) + rue Do: ralculate the MLE-0= argmax ln(0) Practical comments take n-sample to estimate the variance of Q, assume that n is big enough for the normal ditri-duction to be valid. Thus varied = Ho Fo. Ho of varied = Fo for the fruit case. The previous execution must be replaced by appropriate estimates. Ho, Fo. > After calculating the estimate-V, our experimental estimation of to is

(NLT-Ourth standard error (10) = 10/10). PR V from OR Hall Ha => O Var [V] Eigger But Stouder (