QDA 2023 03 09

MULTIPLE TESTS AUTOCORRELATION THE SAME AND BONFERMONI'S INEQUALITY BARTLEN'S LBQ JAX

I lagged time secres (K=1)

スピン

K K

X

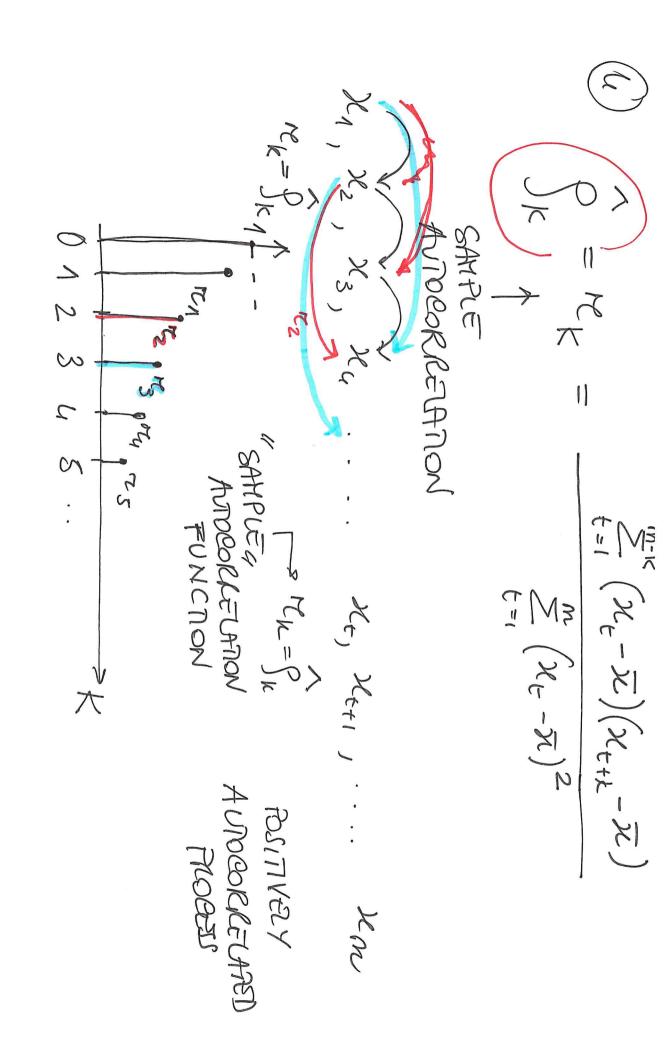
7-1

SIATIONARY PROCESS AUTOCOVARIANCE (FUNCTION AT LAG K $X_{t} = E / (X_{t} - \mu_{t}) (X_{t-k} - \mu_{t-k})$ アーグ 12

at lag k=1

ス 一 一 大 大 $8 - \frac{1}{5} \left[\left(X_{t} - \mu \right)^{2} \right] = 5^{2}$

AUTOCORRELATION Remind 及してた方 -X(x+-x)(x++k-x) | (C) NEGATIVE AUTOBORR 114011 somple, autocovariance のころで POSITIVE AUTOCORA M=X somple



GIVEN to (1'0) NV TEST STATISTIC 0,53 H1: Sx +0 BARTIET SK N/O12 S Tilan Re

6)

KEJED TH NO ANDCORGELATION AT LAGE THE ASSUMMON

CORRELATION

DEPENDENCE

CARREATED X

DEPENDENT)

DEPENDENT

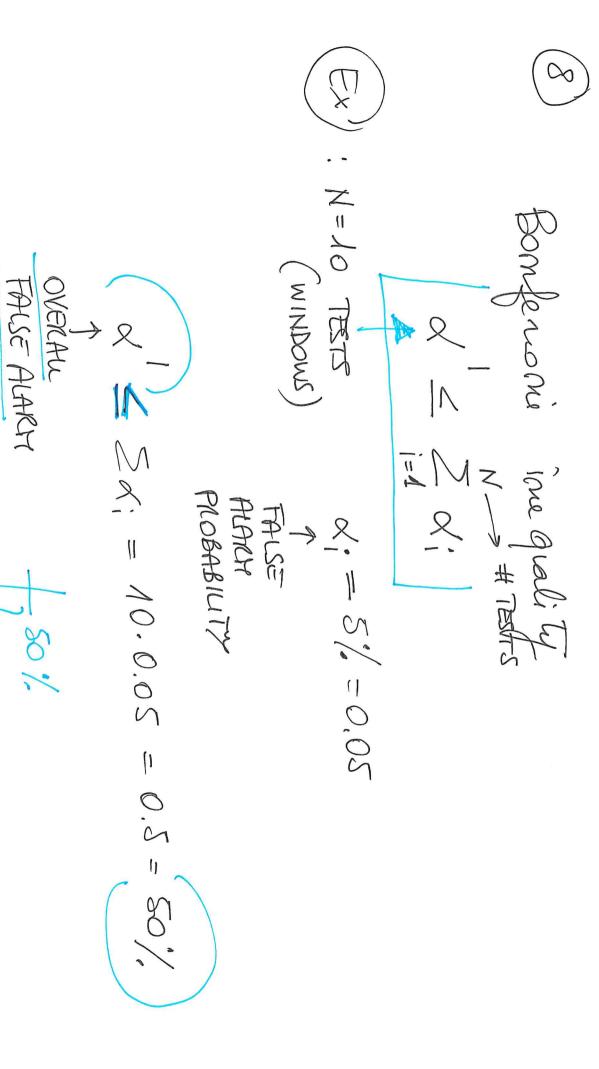
to: 2 = 0 K=1, 2, 3, 4 : 52 # 0 · · × % Q, = FIRST TYRE FREOK

4) Ho: Su =0 Ho: 53 =0 Ho: 92 =0 5 SN 5 H. 9 70 Ha: 53 70 Hy: 92 40 2 w² 2,

probability of rejecting at least one mell hypothesis I they are all true

FIRST TYPE

OVERAU



Use Bomfenoui's imequality N=10 PET BWA VAWE & NOH. A UPPER BUND Q' ~ 10% = 5 x; X NOT = 10% " Butul " & 2° - 10% - QNOH 10

to is two 110 ARE OVERALL FIRST TYPE BRIDE L=1,2, TO PO = m (m+2)+ Q~ZL X=1 80-K 3 日16/4,...1 0+:561

