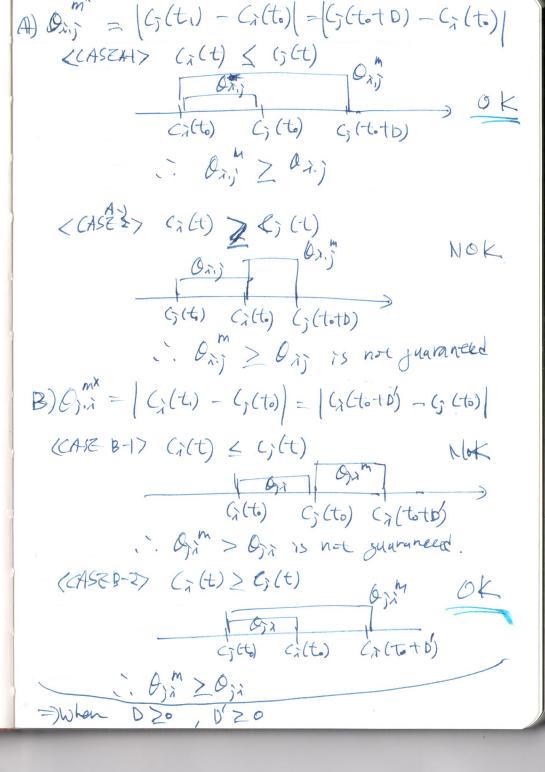
Obor PROOF · Offset =  $\max(\hat{O}_{*,*}^{M})$  $-Q_{\lambda,j}^{M} = \max \left(Q_{\lambda,j}^{M}, Q_{j,\lambda}^{M}\right)$  $V_{ij}^{m} = mcn (O_{i,j})$  x-th measuresum from (one) = (C) (to tb) - ()(to) ~ (i(t): true stamp of core-i at time t Is mount tsc, which means - (a(t) is a constant monstance oncreasing function with a given Torestarp Auguency



We don't know whether Gitt & Gitt on Gitt & Gitt

But we c

\* Suppose Ci(t) < Ci(t) in measy Dij

- then only CASE A-1 is correct,

meany of > Ois is juaranteed.

- For CASE A-2,

Day Day = Ory > Ory > Ory > or

6) Ont Son Suarmed.

# Suppose  $G_{i}(t) \geq G_{j}(t)$  on many  $G_{ji}^{m}$ -then only LAST B-2 is correct, meany  $G_{ji}^{m} > G_{ji}$  is suaraneed

- For CASE B-1

O O;in > o;in

3 gin & Osi > Cin 2051 in not guarateed

Of max (Of, Of)

So max (Oi), Oi

Is gurnas there

because with of one measured value (Di; on Di; in) is correct and taky the correct one or greater one does not break the mornment. V offsita =  $max(\theta x, y)$ Where e is a set of cores

and x and y are a member of e

Among cores in C 14 (sct) - Cyct) > officete then Cyct) Amony cores on a set C,

(D) if  $C_X(t) - C_Y(t) \ge offset_c$ then  $C_X(t)$  happens before  $C_Y(t)$ 

- 3 if  $(x(t) (x(t)) \ge obtset($ -then (y(t)) happens before (x(t))
- 3 if  $(C_x(t) C_y(t))$  offset. then we cannot decode which one happens before anothon.