

Claim: $\{P_i \leq q_{vts}\} \cap A_{v,s} = \{P_i \leq q_{vts}\} \cap C_{v,s}^{cc}$

Proof: $w \in LHS \Rightarrow w \in \{P_i \leq q_{vts}\}$

and $w \in A_{v,s}$ so v not, s false rejected

and $P_i \leq \frac{R}{n} q_{vts} = \frac{R}{n} q \Rightarrow H_2$ is rejected.

so ~~P_i is not rejected~~

so P_i rejected, $\forall i$ other $P_j(w)$ are

to $\{P_h(w) \in V\}$

i.e. $w \in C_{v,s}^{(i)}$! $\rightarrow w \in RHS$

not
nee

$w \in RHS \Rightarrow$

this is all you
need +
def of $C_{v,s}^{(i)}$

Basically $A_{v,s} = \{w : \forall P_j(w), j \in I, \text{ rejected}, \text{ s } P_h(w) \in V\}$

and $\{P_i \leq q_{vts}\} = \{P_i \in H_2 \text{ is rejected}\} \rightarrow$ by the

so $\{P_i \leq q_{vts}\} \cap A_{v,s} \subseteq RHS$

$= \{w \text{ st } P_i(w) \text{ rejected}, \forall i \in I, \text{ s } P_h(w) \in V\}$

and and $\{P_i \leq q_{vts}\} \cap A_{v,s}$ equals this too!!

as this equals $\{w : P_i \text{ not rejected}\} \subseteq C_{v,s}^{(i)}$