

Case 2.2! m had rejected w' proposal

$$\cancel{w'' > w' \text{ in } L_m}$$

(Algo def) $w'' > w'$ in L_m

(Obs 1) $w > w''$ in L_m

transitivity
of $>$

$w > w'$ in $L_m \rightarrow$ contradiction!

$$N \rightarrow 2N$$

$$N^d \rightarrow (2N)^d = 2^d \cdot N^d$$