Bulow Klemperer Theorem (1996)

if the auctioneer has no idea about Q: What the Di's, he distribution of the values of the biddens!

 $\Rightarrow$  i.i.d.  $\int_{i}^{\infty} = \int_{i}^{\infty} regular \Rightarrow \int_{i}^{\infty} = \int_{i}^{\infty} socione$ .

Suppose "HAVE TO" sell He item.

X={xc={0,Bn}/ =1}

 $x(b)=x(v)= \underset{X \in X}{\operatorname{arg sax}} \underbrace{\sum_{i=1}^{q} (V_i)}_{\text{virtual Value}} .$ OPT Auction  $i^{\dagger} = argnax \phi(v_i) = argnax$   $i \in N$ 

Pit = Bit = se conditional displant

Second-Pice! Vickey Audion

when lave to sell he item.

Always
Always
Step-1. Run op7 on 1 n biddens.

Glap-1. Run op7 on 1 n biddens.

Grey Len give it

Ke item

to (not) the bidden for tral.

E Rou 88
Vickey

Wy (mr) biddes

Rev 08

Auction A

Wy (mr) bidders

The results of the results