Votation private value: v bid: b  $f: \nu \rightarrow b$ payment: P M = (a, P)

エ 正 正 Vェ ツェ ツ面 asp Sp II DSIC (不同精制人) IC { BIC(有人,信念) CG,Pi(3+1)-(5+3-6)

IC 1 truthful 
$$u_{I}(v_{I}; (v_{I}, b_{-I})/3 u'_{I}(v_{I}; (v'_{I}, b_{-I}))$$

IR  $u_{I}(v_{I}; (b_{I}, b_{-I})) \ge 0$ 

Utility

profit

 $u_{I} = U - P$ 
 $u_{I}^{asp} = 5 - 3 = 2$ 
 $u_{I}^{afp}$ 
 $u_{I}^{afp} = 5 - 5 = 0$ 
 $u_{I}^{afp} = 5 - 1 = 4$ 

regret rgti= max uW(Viil Vi'; V-i))- u"(Viilvi, V-i)) min  $\mathbb{E}\left[-\sum_{i \in N} P_i^{W}(\mathcal{V})\right] + \alpha rgt_i(w)$ wered  $v \sim \mathcal{F}\left[-\sum_{i \in N} P_i^{W}(\mathcal{V})\right] + \alpha rgt_i(w)$ S.t  $rgt_i(w) = 0$ ,  $\forall i \in N$ 

$$74 \frac{1}{2}$$

$$V = [0,1] \times [0,$$

Payment Net Albration Net

M-Net

R-Net

