

PaK

12/2/05

Def'n ~~MINIMAX, MAXIMIN, MINIMAX, MAXIMIN~~

$\forall c \in \mathbb{Z}$

$$\alpha_c : C(\lambda) \rightarrow \mathbb{R} \quad \alpha_c(A) = \sum_{\substack{i-j=c \\ i \in \lambda}} x_{ij}$$

$$\beta_c : D(\lambda) \rightarrow \mathbb{R} \quad \beta_c(B) = \sum_{\substack{i \leq i_c \\ i \leq j_c}} y_{ij}$$

$(i_c, j_c)$  extreme pt of line  
w/in  $\lambda$   $i-j=c$

Thm (TPT)

$$J = (\dots d_{-1}, d_0, d_1, \dots)$$

Integer pts  $\rightarrow E(C(\lambda) \cap \{\alpha_c(x_{ij}) = d_c \forall c \in \mathbb{Z}\}) = E(D(\lambda) \cap \{\beta_c(y_{ij}) = d_c \forall c \in \mathbb{Z}\})$

Monday: TPT, TPT  $\Rightarrow$  HCF