

$$\begin{aligned}
& (k,k+1) \\
& P_i \\
& \omega^*(P) \\
& ?? \\
& \omega(P) \\
& c_0(V)+ \\
& m(V)P+ \\
& \sum_{s\in S\backslash\{V\}}-\rho_s[c_0(s)+ \\
& m(s)P] \\
& m(V)+ \\
& \sum_{s\in S\backslash\{V\}}\rho_sm(s) \\
& \rho \\
& \{\rho: \\
& \sum_{s\in S\backslash\{V\}:k\in s}\rho_s= \\
& 1for all k\in \\
& V, and \rho_s\geq \\
& 0for all s\in \\
& S\backslash \\
& \{V\}\} \\
& m(s) \\
& \omega(P) \\
& m(V) \\
& m(V) \\
& \omega^*(P) \\
& ?? \\
& \omega^*(P) \\
& m(V) \\
& \acute{\omega}(P) \\
& \hat{R} \\
& \hat{P} \\
& \hat{P}\in \\
& [0,P^*] \\
& ?? \\
& \hat{P} \\
& \acute{\omega}(P) \\
& c_0(V)+ \\
& m(V)P+ \\
& \sum_{s\in S\backslash\{V\}}-\rho_s[c_0(s)+ \\
& m(s)P] \\
& \acute{\omega}(P) \\
& \sum_{s\in S\backslash\{V\}}\rho_sm(s) \\
& \acute{\omega}(P) \\
& P\in \\
& [0,P^*] \\
& \acute{\omega}(P) \\
& \acute{\omega}(P) \\
& \acute{\omega}(P) \\
& P^* \\
& \omega^*(P) \\
& S_1,S_2,\ldots,S_n \\
& S_i \\
& i- \\
& 1 \\
& S_1 \\
& 1 \\
& 0
\end{aligned}$$

$$S_1=S_2+\cdots+S_n=\sum_{i=2}^nS_i.$$

$$(n-1)\sum_{s\in S\backslash\{V\}}\rho_s\geq\sum_{k\in V}\sum_{s\in S\backslash\{V\}:k\in s}\rho_s=n.$$

$$\begin{aligned}
& \rho_s \\
& (n-1) \\
& \rho_s > \\
& 0 \\
& n- \\
& 1 \\
& n- \\
& 1 \\
& \binom{n}{n-1}
\end{aligned}$$

$$\{\alpha_1+\alpha_2+\cdots+\alpha_{n-1}=x_1\alpha_1+\alpha_3+\cdots+\alpha_n=x_2\alpha_2+\alpha_3+\cdots+\alpha_n=x_n.$$

$$n\qquad\qquad\alpha_1+$$