$$\beta_{j} = \phi_{kj}(V_{j})$$

$$\alpha_{j} = \phi_{ik}(V_{j}) \quad \gamma_{j} = \phi_{ij}(V_{j})$$

$$|V_{j}| \leq \sqrt{|\alpha_{j}||\beta_{j}||\gamma_{j}|}$$

$$Dom(V_{j}) = \alpha_{j} \cup \beta_{j} \cup \gamma_{j}$$

$$|\alpha_{j}| + |\beta_{j}| + |\gamma_{j}| \leq S$$