§13. Ordered semigroup nets with restrictions

Let G be a nonnegative ordered additive abelian semigroup, let l be an indexing string, let $u \in G$, and let $P \in \{=,\geq,>,<,\leq\}$. We define

 $G(lPu) = \{j \in G(l): abs(j)Pu\}$.

Given any net-restriction t, we define

 $G(lPu,t) = G(lPu) \cap G(l,t)$

and for any net-restriction k we define

 $G(lPu,t,k) = G(lPu) \cap G(l,t,k)$

and for any $b \in Z$ and $r \subset Z$ we define

 $G(lPu,t,b,r) = G(lPu) \cap G(l,t,b,r).$