

lconnects^{0,22}

$\text{lconnects}(p;i;j)$
 $\equiv_{\text{def}} \text{lpath}(p)$
 $\& (\|p\| = 0 \Rightarrow i = j)$
 $\& (\neg \|p\| = 0 \Rightarrow i = \text{source}(\text{hd}(p)) \ \& \ j = \text{destination}(\text{last}(p)))$

clarification:

$\text{lconnects}(p;i;j)$
 $\equiv_{\text{def}} \text{lpath}(p)$
 $\& (\|p\| = 0 \in \mathbb{Z} \Rightarrow i = j \in \text{Id})$
 $\& (\neg \|p\| = 0 \in \mathbb{Z} \Rightarrow i = \text{source}(\text{hd}(p)) \in \text{Id} \ \& \ j = \text{destination}(\text{last}(p)) \in \text{Id})$