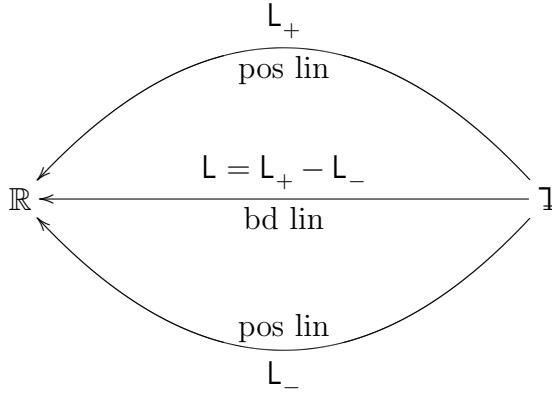


$$l \in \overset{\omega}{\underset{0}{\mathbb{R}}} \text{ unit BanLat}$$

$$\mathbb{R} \nabla_0 l \in \mathbb{R}^1_0 \text{ BanLat}$$

$$\mathbb{R} \nabla_0 l = \mathbb{R} \nabla l - \mathbb{R} \nabla l$$



$$l \geq 0 \Rightarrow L_+ l = \bigvee_{0 \leq l_i \leq l} l_i \geq 0 \vee \underline{l}$$

$$c \geq 0 \Rightarrow L_+ \underline{lc} = \underline{L_+ l} c$$

$$\begin{cases} l \geq 0 \\ 0 \leq l_i \leq l \end{cases} \Rightarrow L_+ \underline{l + f} \geq \underline{l} + \underline{f} = l + f \stackrel{\sup}{\Rightarrow} L_+ \underline{l + f} \geq L_+ l + L_+ f$$

$$0 \leq l \leq l + f \Rightarrow \begin{cases} 0 \leq l_i \wedge l_j \leq l \\ 0 \leq l_i - l_j \wedge l_j \leq f \end{cases} \Rightarrow Ll = \underline{Ll} \wedge \underline{l} + \underline{l - l} \wedge \underline{l} \leq L_+ l + L_+ f$$

$$\Rightarrow L_+ \underline{l + f} = L_+ l + L_+ f$$

$$l \in \underline{l} \Rightarrow L_+ l = L_+ \underline{l + \overline{l}} e - L_+ \overline{l} e \Rightarrow L_+ \underline{l + f} + \overline{l + f} e + L_+ \overline{l} e + L_+ \overline{f} e$$

$$\stackrel{\text{all terms pos}}{=} L_+ \underline{l + \overline{l}} e + L_+ \underline{f + \overline{f}} e + L_+ \overline{l + f} e \Rightarrow L_+ \underline{l + f} = L_+ l + L_+ f$$

$$c \geq 0 \Rightarrow L_+ \underline{lc} = \underline{L_+ l} c$$

$$L_+ l + L_+ \underline{l} = L_+ \underline{l - l} = L_+ 0 = 0 \Rightarrow L_+ (-l) = -L_+ l \Rightarrow L_+ \text{ lin} \Rightarrow L_- = L_+ - L \text{ lin}$$

$$\bigwedge_{l \geq 0} 0 \leq L_+ l \geq Ll \Rightarrow L_\pm \text{ pos}$$

$$\overline{L} = L_+ e + L_- e$$

$$\overline{L} \leq \overline{L_+} + \overline{L_-} = L_+ e + L_- e$$

$$\bigwedge_{0 \leq i \leq e} -e \leq 2\mathbf{1} - e \leq e \Rightarrow \overline{2\mathbf{1} - e} \leq 1 \Rightarrow \overline{L} \geq L \underline{2\mathbf{1} - e} = 2L\mathbf{1} - Le \underset{\sup}{\Rightarrow} \overline{L} \geq 2L_+ e - Le = L_+ e + L_- e$$