

$$\begin{array}{ccccc}
 \mathbf{H}_1 \times \mathbf{1} & \xrightarrow{\text{ru}_{\mathbf{H}_1}^{\langle \mathbf{Set}, \times, \mathbf{1} \rangle}} & \mathbf{H}_1 & \xleftarrow{\text{lu}_{\mathbf{H}_1}^{\langle \mathbf{Set}, \times, \mathbf{1} \rangle}} & \mathbf{1} \times \mathbf{H}_1 \\
 \downarrow f * \text{id}_* & & \downarrow f & & \downarrow \text{id}_* * f \\
 \text{Pow}(\mathbf{N}_1 + \emptyset) & \xrightarrow{\text{Pow}(\text{ru}_{\mathbf{N}_1}^{\langle \mathbf{Set}^{\text{op}}, +, \emptyset \rangle})} & \mathbf{N}_1 & \xleftarrow{\text{Pow}(\text{lu}_{\mathbf{N}_1}^{\langle \mathbf{Set}^{\text{op}}, +, \emptyset \rangle})} & \text{Pow}(\emptyset + \mathbf{N}_1)
 \end{array}$$